
NOTIFICATION AND SELF-IMPLEMENTING PCB REMEDIATION WASTE PLAN FOR THE KEARNY GENERATING STATION

**KEARNY GENERATING STATION
KEARNY, HUDSON COUNTY, NEW JERSEY**

**VOLUME 1 OF 1
(TEXT, TABLES, FIGURES, AND APPENDICES)**

Submitted by:

**PSEG Fossil
40 Cragwood Road
South Plainfield, New Jersey 07080**

Prepared by:

**Langan Engineering and Environmental Services, Inc.
300 Kimball Drive
Parsippany, New Jersey 07054**

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LIST OF ACRONYMS AND ABBREVIATIONS

AOC	Area of Concern
bgs	below ground surface
cm/s	centimeter per second
CRIR	Comprehensive Remedial Investigation Report
ft/ft	foot per foot
ft/yr	foot per year
GCL	Geosynthetic Clay Liner
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
Langan	Langan Engineering and Environmental Services, Inc.
LSRP	Licensed Site Remediation Professional
mg/kg	milligrams per kilogram
msl	Mean Sea Level
NJDEP	New Jersey Department of Environmental Protection
OSHA	Occupational Safety and Health Administration
PCBs	Polychlorinated Biphenyls
PDI	Pre-Design Investigation
PDIA	Pre-Design Investigation Addendum
Plan	Notification and Self-Implementing PCB Remediation Waste Plan
ppm	Parts per Million
PSEG	PSEG Fossil, LLC
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RIR	Remedial Investigation Report
Site	PSEG Kearny Generating Station
TSCA	Toxic Substances Control Act
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey

SECTION 1 **INTRODUCTION**

1.1 BACKGROUND

Langan Engineering and Environmental Services, Inc. (Langan) has prepared this “Notification and Self-Implementing PCB Remediation Waste Plan” (Plan) on behalf of PSEG Fossil, LLC (PSEG) for the Kearny Generating Station (Site) located at the foot of Hackensack Avenue in the town of Kearny, Hudson County, New Jersey (Block 298, Lots 19.01, 19.03, 20, 21, 22, 23, and 23.01 and Block 284, Lots 42 and 43). The generating station is owned by PSEG Power, LLC. A Site location map is included as Drawing 1. A Site Plan is included as Drawing 2.

PSEG has previously completed remedial investigation (RI) at the Site, as documented in the April 2016 Comprehensive Remedial Investigation Report (CRIR). The CRIR documented the activities and findings of the RI at 13 areas of concern (AOC) identified at the Site:

- AOC 1: Former Coal Storage Area;
- AOC 2: Transformer Switchyard;
- AOC 3A: Mercury Spill Area;
- AOC 3B: Ash Settling Basin;
- AOC 4A: Ash Cribs and Management Areas;
- AOC 4B: Drainage Channel;
- AOC 5: Bulk Petroleum Aboveground Storage Tanks;
- AOC 6: Former Underground Storage Tanks;
- AOC 7A: Combustion Turbine Unit 12 Area;
- AOC 7B: Combustion Turbine Unit 10 and 11 Area;
- AOC 7C: Yard Garage and Truck Unloading Area;
- AOC 8: Site-Wide Fill; and,
- AOC 9: Inactive Rail Lines.

Soil and ground water contamination associated with these AOCs was characterized and delineated as part of the RI. Discrete areas of polychlorinated biphenyl (PCB) contamination was identified in four AOCs - AOC 1, AOC 2, AOC 8, and AOC 9.

Langan conducted a pre-design investigation (PDI) in 2017 and a pre-design investigation addendum (PDIA) in 2019 to refine the extent of contaminated soil requiring remediation and to meet New Jersey Department of Environmental Protection (NJDEP) post-remediation sample frequency requirements where appropriate. Supplemental sampling was performed in 2019 and 2020 to refine the vertical limits of PCB-impacted soil in AOC 1. The PDI was documented in the September 2018 Remedial Action Work Plan (RAWP). The PDIA and supplemental sampling will be documented in a forthcoming report to the NJDEP; however, relevant information to this Plan is incorporated herein.

PSEG has proposed in the RAWP remedial actions to address soil, ground water, and sediment impacts at the Site. The proposed remedial action includes excavation and capping of PCB-impacted soil found on Block 298 of the Site.

Langan has developed this Plan in accordance with 40 CFR §761 – PCBs Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, as well as the PCB Site Revitalization Guidance (Revitalization Guidance), dated November 2005, under the Toxic Substances Control Act (TSCA). The TSCA of 1976 provides the United States Environmental Protection Agency (USEPA) with the authority to require reporting, record-keeping, testing requirements, and restrictions relating to certain chemical substances and mixtures. TSCA addresses the production, importation, use and disposal of specific chemicals, including PCBs.

Throughout the Plan, the term PCB is used to describe a total PCB concentration (sum of individual Aroclors) consistent with the TSCA definition. Through extensive sampling, six areas of soil with PCB concentrations exceeding 1 milligram per kilogram (mg/kg) were identified at the Site. The six areas comprise a total combined area of approximately 290,137 square feet (6.7 acres). The highest concentration of PCBs identified at the Site was 16,000 mg/kg.

As further described in Section 1.2, the TSCA cleanup levels for PCBs are defined by the type of material impacted, the potential exposure levels, and whether institutional (deed restriction) and engineering controls (cap) will be used. Remediation activities for the PCB-impacted soil at the Site will be performed as described herein and in conformance with 40 CFR §761 and with the TSCA Revitalization Guidance.

1.2 OBJECTIVES

The objectives of this Plan are as follows:

- To serve as the written notification to the appropriate USEPA Regional Administrator and the NJDEP of the start date of cleanup (required 30 days before commencing cleanup) and of the required details outlined in 40 CFR §761.61(a)(3);
- To document and describe the nature, location and extent of the PCB impacts on Site, to outline the plan and procedures used to conduct the pre-cleanup characterization of PCB-impacted soil, to give a summary of the results of the characterization sampling, and to provide an outline of the proposed cleanup plan;
- To serve as a written certification that the sampling plans and procedures used to assess or characterize the PCB impacts at the Site are on file at Langan's Parsippany office located at 300 Kimball Drive, Parsippany, NJ 07054 and are available for USEPA inspection as detailed in 40 CFR §761.61(a)(3)(E); and,
- To ensure that known PCB impacts to soil are disposed in accordance with the requirements for a TSCA Self-Implementing Plan.

1.3 REGULATORY FRAMEWORK

A cleanup site is defined in 40 CFR §761.3 as, "Cleanup site means the areal extent of contamination and all suitable areas in very close proximity to the contamination necessary for implementation of a cleanup of PCB remediation waste regardless of whether the site was intended for management of wastes." For the purposes of this plan, the portion of the PSEG Kearny Generating Station identified as Block 298 will be considered the cleanup site.

1.3.1 Bulk PCB Remediation Waste

Materials contaminated with PCBs as the result of a spill, an intentional or accidental release, an uncontrolled discharge, or other unauthorized disposal of PCBs are called PCB remediation waste. There are four categories of PCB remediation waste: bulk PCB remediation waste; porous surfaces; non-porous surfaces; and, liquid PCBs. PCB remediation waste is managed at its "as-found" PCB concentration and includes (but is not limited to):

- Soil, rags, and other debris generated during a cleanup;
- Environmental media containing PCBs, such as soil and gravel;
- Buildings and other man-made structures contaminated with PCBs; and,
- Porous and non-porous surfaces upon which PCBs were spilled or released (see the definition at 40 CFR §761.3).

PCBs are a group of synthetic organic chemicals that were manufactured in the United States from 1929 to 1979. PCBs were commonly used in electrical equipment as a dielectric fluid because of ideal physical-chemical properties (low electrical and high thermal conductivity, high boiling point and chemical stability, and flame-retardant properties). The 1976 Toxic Substances Control Act (TSCA; Public Law 94-469) prohibited further manufacture of PCBs in the United States because they are classified by USEPA as persistent, bioaccumulative, and toxic compounds.

1.3.2 High vs. Low Occupancy

As described in the TSCA Revitalization Guidance, PCB cleanup levels depend upon the degree of potential exposure to an area with residual PCB concentrations. Exposure is measured by the amount of time of human exposure and the concentrations and types of PCB waste that will remain in place after remediation. Based on generally accepted and reasonable exposure durations, TSCA describes the following:

- A high occupancy area is any area contaminated with PCB remediation waste and where occupancy for any individual not wearing dermal and respiratory protection for a calendar year is 335 hours or more (an average of 6.7 hours or more a week) for bulk PCB remediation waste exposure. Less stringent specifications for the definition of a high occupancy area are outlined in §761.3 for exposure from non-porous surfaces; however, these are not included as Site exposure from bulk PCB remediation waste.
- A low occupancy area is any area contaminated with PCB remediation waste and where occupancy for any individual not wearing dermal and respiratory protection for a calendar year is less than 335 hours (an average of less than 6.7 hours a week) for bulk PCB remediation waste exposure. Less stringent specifications for the definition of a low occupancy area are outlined in §761.3 for exposure from non-porous surfaces; however, these are not included as Site exposure from bulk PCB remediation waste.

1.3.3 Site Remediation Areas

The location of the individual remediation areas are shown on Drawing 3. The following is a brief description of each remediation area:

Area 1.1:

Area 1.1 is associated with AOC 1: Former Coal Storage Area and is located in the central portion of the Site. An existing electrical transmission tower is located directly above a portion of the PCB-impacted soil. PCBs in this area were identified from non-detect to a maximum concentration of 16,000 mg/kg.

Area 2.1:

Area 2.1 is associated with AOC 2: Transformer Switchyard and is located in the eastern portion of the Site. Two large existing structures are located adjacent to the PCB-impacted area. PCBs in this area were identified from non-detect to a maximum concentration of 1,350 mg/kg.

Area 2.2:

Area 2.2 is associated with AOC 2: Transformer Switchyard and is located in the eastern portion of the Site. Two existing structures are located adjacent to the PCB-impacted area. PCBs in this area were identified from non-detect to a maximum concentration of 100 mg/kg.

Area 9.1:

Area 9.1 is associated with AOC 9: Inactive Rail Lines and is located in the southeastern portion of the Site. An existing asphalt helipad is located within the PCB-impacted area. PCBs in this area were identified from non-detect to a maximum concentration of 4 mg/kg.

230 kV Switchyard:

The 230 kV Switchyard is associated with AOC 2: Transformer Switchyard and is located in the east-central portion of the Site. The area is comprised of an active switchyard with electrical switching equipment and is covered by concrete pedestals and gravel ground cover. PCBs in this area were identified from non-detect to a maximum concentration of 1.44 mg/kg.

Peaking Units 13/14:

Contamination at the Peaking Units 13/14 is associated with AOC 8: Site-wide Fill and is located in the central portion of the Site. The area is comprised of active electrical generating equipment, roadways, and vegetated areas. PCBs in this area were identified from non-detect to a maximum concentration of 5.39 mg/kg.

1.3.4 Site-Specific Cleanup Levels

The Site is currently used as an electrical generating station. The majority of Area 1.1, Area 2.2, Area 9.1, and Peaking Units 13/14 will be remediated for a high-occupancy use. Area 1.1 beneath the utility tower footprint, Area 2.1 and the 230 kV Switchyard will be remediated for a low-occupancy use.

The cleanup level for soil with a high-occupancy use will include excavation of PCB-impacted soil above 10 mg/kg with PCBs remaining between 1 and 10 mg/kg having a cap meeting the requirements of 40 CFR §761.61(a)(7) or excavation of PCB-impacted soil above 1 mg/kg.

The cleanup level for soil with a low-occupancy use will include excavation of PCB-impacted soil above 100 mg/kg. Remaining PCB-impacted soil above 50 mg/kg will be capped with a cap meeting the requirements of 40 CFR §761.61(a)(7). In addition, a fence with signs with the M^L mark will be installed around the Area 2.1 low occupancy use to restrict access. PCB-impacted soil less than or equal to 25 mg/kg does not require additional remediation in low-occupancy areas.

1.3.5 Disposal Requirements

As described in the TSCA Revitalization Guidance, dated November 2005, bulk PCB remediation wastes at concentrations less than 50 parts per million (ppm) must be disposed of using one (or a combination) of the approved disposal options as follows:

- A USEPA-approved TSCA PCB disposal facility;
- A permitted municipal solid waste or non-municipal non-hazardous waste facility when disposed pursuant to:
 - a self-implementing on-site cleanup and disposal of PCB remediation waste;
 - a risk-based disposal approval; or,

- A Resource Conservation and Recovery Act (RCRA) Sec. 3004 or Sec. 3006 permitted hazardous waste landfill.

As described in the TSCA Revitalization Guidance, bulk PCB remediation wastes at concentrations greater than 50 parts per million (ppm) must be disposed of using one (or a combination) of the approved disposal options as follows:

- In a RCRA Sec. 3004 or 3006 permitted hazardous waste landfill; or,
- A USEPA-approved TSCA PCB disposal facility (e.g., incinerator, chemical waste landfill; via an approved alternate disposal method or coordinated approval).

PCB remediation wastes are found at concentrations both less than and greater than 50 ppm and will be disposed at the appropriate facility in accordance with this Plan. PSEG will confirm that the selected disposal facility is permitted to accept PCB-impacted soil at the concentrations present.

1.4 PARTIES INVOLVED AND RESPECTIVE RESPONSIBILITIES

PSEG Power, LLC is the property owner. The PSEG Fossil, LLC division of PSEG Power, LLC is the responsible party for the remediation of soil and ground water at the generating station.

Langan is the environmental consultant working on behalf of PSEG Fossil, LLC to characterize and remediate the PCB-contaminated soil associated with the Site. Ms. Elana L. Seelman of Langan is the Licensed Site Remediation Professional (LSRP) for the NJDEP Site Remediation Program.

SECTION 2

SITE DESCRIPTION

2.1 GENERAL SITE DESCRIPTION

The generating station is located at the foot of Hackensack Avenue in the town of Kearny, Hudson County, New Jersey, and is identified as Block 298, Lots 19.01, 19.03, 20, 21, 22, 23, and 23.01 and Block 284, Lots 42 and 43 as referenced on the town of Kearny tax maps. The generating station encompasses approximately 92 acres within two parcels of land separated by Pennsylvania Avenue and Fish House Road, however, the electric generating operations compose only a portion of the property. The main portion of the Site (Block 298) is bound to the east by the Hackensack River, to the west by Central Avenue, to the north by Pennsylvania Avenue and Fish House Road, and to the south by Third Street, Stern Avenue, and industrial properties. The northern portion of the Site (Block 284) is bound to the south and southeast by Pennsylvania Avenue and Fish House Road, and to the north and west by industrial properties.

The majority of the Site is developed and supports operations for the generating station. The developed portion of the Site is primarily covered with asphalt and gravel. The southwest portion of Block 298 and the majority of Block 284 are vegetated. Wetlands are located across Block 284 and in two isolated areas on Block 298.

The Site is located at latitude 40°44'15" North and longitude 74°06'5" West, which correspond with State Plane coordinates E 602869 and N 693886. A Site location map is provided as Drawing 1.

2.2 HISTORICAL USE AND CURRENT CONDITIONS

Prior to Site development, the Site was predominantly a tidal meadow. The majority of the Site, including the lands occupied by the current generating station, was purchased by Public Service Electric Power Company in 1923. Additional parcels of land were acquired by PSEG Power, LLC and its predecessors through 1959. Certain parcels that were no longer required for operation of the generating station were sold to the United New Jersey Railroad and Canal Company in 1959 and 1961.

Site development involved the placement of fill material over time to achieve the existing Site grade. Fill thicknesses up to 20 feet are present on Site. Structures at the Site are constructed on piles.

The main portion of the Site (Block 298) is primarily developed and supports operations for the generating station. Features on this portion of the Site include switchyards and substations, buildings, trailers, tanks, generators, roadways, and some vegetated areas. The northern portion of the Site (Block 284) is primarily covered by wetlands and three small surface water bodies.

2.2.1 TOPOGRAPHY

According to the United States Geological Survey (USGS) topographic map (Drawing 1), the Site topography is generally flat. The elevation of the main portion of the Site (Block 298) ranges in elevation from approximately 0 to 8 feet above mean sea level (msl). The elevation of the northern portion of the Site (Block 284) ranges in elevation from approximately 6 to 8 feet above msl. The Site slopes generally to the south and east towards the Hackensack River.

2.2.2 SOILS, GEOLOGY, HYDROGEOLOGY

This section is based on conditions encountered during previous investigations as documented in various site reports submitted to the NJDEP, including a 1997 Remedial Investigation Report (RIR) and 2016 CRIR.

The Site lies in the Newark Supergroup deposits of the Newark Basin, which encompasses parts of New York, New Jersey, and Pennsylvania. The Newark Basin contains the thickest sedimentary sequence of any of the exposed Newark Supergroup deposits. The Newark Basin is an elongated northeast trending, faulted trough, and filled with fluvial and lacustrine sediments of late Triassic and early Jurassic age.

The Site is underlain by the following geologic components from surface downward:

- Fill material comprised of varying amounts of gravel, sand, silt, wood, concrete, brick, ash, cinders, and slag that ranges in thickness from 5 to 20 feet;
- Peat layer comprised of soft fibrous peat and organic silt (i.e., meadow mat) that ranges in thickness from 0 to 10 feet;
- Sand layer comprised of silty sand to sand that ranges in thickness from 3 to 12 feet;

- Silty clay layer comprised of varved silty clay and clayey silt that ranges in thickness from 0 to 10 feet in the eastern portion of the Site to greater than 60 feet in the northwestern portion of the Site;
- Glacial till comprised of varying amounts of gravel, sand, silt, clay, cobbles, and weathered rock that ranges in thickness from 0 to 10 feet; and,
- Bedrock comprised of a maroon to gray shale and siltstone with minor sandstone lenses that is encountered at depths ranging from 25 feet below ground surface (bgs) in the northeast corner of the Site near the river to 111 feet bgs in the western portion of the Site.

Four hydrogeological units were identified in the overburden at the Site, including three water-bearing zones (the fill layer, the sand layer, and the glacial till layer) and a silt/clay confining layer. Characteristics of these four units from surface down are as follows:

- Fill Water-Bearing Zone
 - Ground water was encountered 2 to 7 feet bgs;
 - Ground water flow is south-southeast towards the Hackensack River;
 - Hydraulic conductivity ranges from 2.74×10^{-3} centimeters per second (cm/sec) to 5.29×10^{-4} cm/sec with average of 3.52×10^{-3} cm/sec;
 - Generally a downward vertical gradient to the sand water-bearing zone;
 - Average hydraulic gradient of 0.0029 foot per foot (ft/ft); and,
 - Horizontal ground water velocity estimated at 42 feet per year (ft/yr).
- Sand Water-Bearing Zone
 - Ground water flow is south-southeast towards the Hackensack River;
 - Hydraulic conductivity ranges from 2.05×10^{-3} cm/sec to 5.40×10^{-4} cm/sec with average of 1.08×10^{-3} cm/sec;
 - Hydraulically connected to overlying fill water-bearing zone;
 - Average hydraulic gradient of 0.0017 ft/ft; and,
 - Horizontal ground water velocity estimated at 6.3 ft/yr.
- Silt/Clay Confining Layer
 - Generally encountered at approximately 25 feet bgs; and,
 - Vertical hydraulic conductivity on the order of 1×10^{-7} cm/sec based on literature review.

- Glacial Till Water-Bearing Zone
 - Primarily present in the eastern portion of the Site;
 - Ground water flow is to the west-northwest away from the Hackensack River, although no consistent flow patterns were observed;
 - Hydraulic conductivity ranges from 2.44×10^{-4} cm/sec to 1.95×10^{-5} cm/sec with average of 1.32×10^{-4} cm/sec;
 - Average hydraulic gradient of 0.0026 ft/ft; and,
 - Horizontal ground water velocity estimated at 0.9 ft/yr.

Ground water elevations in all three water-bearing zones are influenced by tidal fluctuations in the Hackensack River. In the glacial till water-bearing zone, a tidal reversal in ground water flow direction occurs, with a flow component toward the river during low tide and away from the river during high tide.

Based on regional geology of the Newark Supergroup and the Triassic Passaic bedrock formation, the principal ground water flow is through fractures in the rock. Flow is usually horizontally anisotropic, and, when pumped, flow direction tends to align with either the strike of the bedding planes or with the direction of the principal high-angle fractures common to this area. The Passaic Formation is typically saturated with the water table extending up into the overburden and weathered bedrock. Confined conditions (semi-artesian) may occur at depths exceeding 50 feet into bedrock.

2.2.3 SURFACE WATER

According to the USGS topographic map (Drawing 1) and the NJDEP NJ-GeoWeb Map, the Hackensack River is the closest water body to the Site. The Hackensack River runs along the eastern property boundary of the Site. Several surface water bodies are also present on the northern portion of the Site (Block 284).

The Hackensack River is classified as a SE3 (saline estuarine waters) water body in the area of the Site. Designated uses of SE3 waters include the following: secondary contact recreation; maintenance and migration of fish populations; migration of diadromous fish; maintenance of wildlife; and, any other reasonable uses. The Hackensack River is tidal in the vicinity of the Site.

2.3 REMEDIAL BACKGROUND

PSEG completed RI activities at the Site in 2016. The CRIR documented the activities and results of the RI. PCBs were detected in soil at concentrations above 1 mg/kg in four AOCs: AOC1 – Former Coal Storage Area; AOC 2 – Transformer Switchyard; AOC 8 – Site-Wide Fill; and, AOC 9 – Inactive Rail Lines. The PCBs were delineated horizontally and vertically to NJDEP's most stringent standard of 0.2 mg/kg.

PSEG will be completing a remedial action at the Site in accordance with the RAWP. The RAWP includes proposals for excavation, engineering controls (both existing and proposed), and institutional controls (deed notice) to address PCB contamination on Site. Additional soil sampling was performed to refine the extent of PCB-impacted soil requiring excavation and capping. The first phase of this PDI sampling was documented in the RAWP. The second phase will be documented in a forthcoming Remedial Action Report to be prepared following completion of the remedial action; however, relevant sampling data are incorporated in this Plan.

SECTION 3

SITE CHARACTERIZATION SAMPLING

3.1 PROCEDURES/METHODS

In situ characterization sampling was performed during several mobilizations to assess the nature and extent of PCB-impacted soils on Site, as follows:

- 1996 to 1997 RI, documented in the 1997 RIR;
- 2013 to 2015 RI, documented in the 2016 CRIR;
- 2017 PDI, documented in the 2018 RAWP;
- 2019 PDIA, which will be documented in the forthcoming Remedial Action Report; and,
- 2019 and 2020 supplemental sampling, which will be documented in the forthcoming Remedial Action Report.

Sampling locations are shown on Drawings 4 through 6.

In situ characterization samples were collected in accordance with the NJDEP Field Sampling Procedures Manual and the Technical Requirements for Site Remediation (N.J.A.C. 7:26E). Samples were collected as grab samples from soil borings. After collection, all samples were properly labeled and immediately transferred to sample coolers. The frequency of characterization samples was within one sample per 400 square feet; this sampling frequency is a deviation from one sample per 100 square feet frequency noted in Subpart N of the federal regulation. All samples were submitted to analytical laboratories under chain-of-custody protocols. Sampling equipment was properly decontaminated prior to reuse.

3.2 SAMPLING RESULTS

A summary of the results of PCB sampling are included in Table 1 and on Drawings 4 through 6. The analytical data show the concentrations of total PCBs ranged from non-detect to 1,350 mg/kg. The laboratory data packages for the characterization sampling are included in Appendix A. Laboratory reports associated with the 1997 RIR and 2010 sampling were not available and are thus not included. The laboratory reports also include data for soil contaminants other than PCBs and are not subject to the Plan; these soil contaminants will be addressed per NJDEP regulations and guidance.

Area 1.1:

Area 1.1 PCB results are shown on Drawing 4. Concentrations of PCBs were identified greater than 1 mg/kg, with a maximum of 16,000 mg/kg occurring at sample VS-101 from 3 to 3.5 feet bgs. PCBs at this area are delineated to 1 mg/kg by soil borings SB-130 and PE-141 to the north, SB-134, PE-119, SB-1005, SB-1007, SB-1009, SB-1010, SB-1011, SB-1019, SB-1020, and SB-1022 to the east, PE-1027, PE-1028, and PE-1029 to the south, and PE-142, PE-151, PE-180, PE-188, PE-1011, PE-1016, and PE-1023 to the west. PCB impacts extend vertically to at least 10.5 feet bgs.

Area 2.1:

Area 2.1 PCB results are shown on Drawing 5. Concentrations of PCBs were identified greater than 1 mg/kg, with a maximum of 1,350 mg/kg occurring at sample SS-255 from 0 to 0.5 feet bgs. PCBs at this location are delineated to 1 mg/kg by soil borings SS-265 to the north, the existing building to the east, SB-213 and SS-260 to the south, and PE-203, SB-226, and the existing building to the west. PCBs are vertically delineated at SB-214 to 10 feet bgs.

Area 2.2:

Area 2.2 PCB results are shown on Drawing 5. Concentrations of PCBs were identified greater than 1 mg/kg, with a maximum of 100 mg/kg occurring at sample BT-209 from 8.5 to 9 feet bgs. PCBs at this location are delineated to 1 mg/kg by soil borings SB-227 and SB-231 to the north, SB-233, SB-219, and SB-220 to the east, PE-208 to the south, and SB-228 to the west. PCBs are vertically delineated at B-203 to 14 feet bgs.

Area 9.1:

Area 9.1 PCB results are shown on Drawing 7. Concentrations of PCBs were identified greater than 1 mg/kg, with a maximum of 4 mg/kg occurring at sample SB-985 from 0 to 0.5 feet bgs. PCBs at this location are delineated to 1 mg/kg by PE-905 to the north, SB-988, PE-910, and an existing concrete channel to the east, SB-959, SB-9048, and PE-902 to the south, and SB-913, SB-9042, SB-9044, and SB-9046 to the west. PCBs are vertically delineated at SB-9046 to 5 feet bgs.

230 kV Switchyard:

The 230 kV Switchyard PCB results are shown on Drawing 5. Concentrations of PCBs were identified greater than 1 mg/kg, with a maximum of 1.44 mg/kg occurring at the duplicate to sample SS209 from 0 to 0.5 feet bgs. PCBs at this location are delineated to

1 mg/kg by soil samples SS220 and SS221 to the north, SS222 and SS210 to the east, S-8 to the south, and SS207 to the west. Based on PCB data within the switchyard area, PCBs are vertically delineated at 2.5 feet bgs.

Peaking Units 13/14:

The Peaking Units 13/14 PCB results are shown on Drawing 6. During construction of the Peaking Units 13/14, soil that was excavated was reused within the project area to raise grade. Soil with PCBs above 1 mg/kg was reused only beneath impermeable surfaces – the generator units or concrete. Concentrations of PCBs were identified greater than 1 mg/kg, with a maximum of 5.39 mg/kg occurring at sample B-1 from 4 to 6 feet bgs based on current grade. Although PCBs at this location are delineated to 1 mg/kg by soil borings SB-104 to the north, SB-313 and SB-706 to the east, B-8 to the southeast, SB-107 to the south, SB-105 to the southwest, and SB-102 to the west, the PCB-impacted soil is limited to beneath impermeable features. PCBs are vertically delineated at B-1 to 6 feet bgs.

3.3 CONCLUSIONS AND RECOMMENDATIONS

Sampling results reveal six areas on the Site where PCB concentrations are greater than 1 mg/kg. There are no known releases of PCBs in these areas; however, the Site has been used as an electric generating station dating back to 1924. Therefore, the source is not known, but may be related to historical fill placement or past Site operations. Sampling results from the Site indicate that PCBs in these areas have been adequately characterized and delineated. Cleanup of PCB-impacted soil will occur based on area-specific criteria that will allow for a high occupancy use or low occupancy use, where appropriate, as discussed in Sections 1.3 and 4.2. Excavated soil will be disposed in accordance with this Plan and 40 CFR 761.61(a)(5)(i)(B).

SECTION 4

SITE CLEANUP PLAN

4.1 HEALTH AND SAFETY

The remedial action at the Kearny Generating Station will be completed under a Site-specific health and safety plan (HASP) for construction activities. The HASP will reflect the proposed Site activities, the compounds of concern (e.g., PCBs), and Site-specific health and safety consideration for the work that will be performed. The HASP will be prepared in accordance with Occupational Safety and Health Administration (OSHA) regulations (29 CFR §1910.120). The work will be performed by workers who are 40-hour OSHA Hazardous Waste Operations and Emergency Response Standard (HAZWOPER)-trained and who receive yearly medical monitoring.

Real-time dust monitoring will be conducted and dust mitigation measures will be implemented as necessary to prevent exposure to PCBs during cleanup activities.

4.2 CLEANUP PLAN

PSEG intends to remediate the PCB-impacted soils on Site to allow for a high-occupancy use in the majority of the Site and low occupancy use in three select areas as described below.

Area 1.1:

PCBs were detected in soil in this area as high as 16,000 mg/kg. PCB-impacted soil at or above 1 mg/kg encompasses approximately 21,804 square feet to varying depths. This area will be cleaned up for a high occupancy use beyond the limits of the existing transmission tower footprint, and low occupancy use within the tower footprint. The cleanup will include the following components as shown on Drawing 8:

- Excavation of soil with PCB concentration above 1 mg/kg for off-Site disposal except in the area beneath and adjacent to the existing transmission tower and backfill with clean fill. The area of excavation occupies approximately 19,175 square feet.
- Excavation of soil to 4 feet bgs beneath and adjacent to the existing transmission tower (approximately 960 square feet) on the western portion of the tower footprint

and excavation of soil to 6 feet bgs beneath and adjacent to the tower (approximately 1,670 square feet) on the eastern portion of the tower footprint.

Approximately 7,450 cubic yards of PCB-impacted soil will be removed from the area outside the existing transmission tower footprint (high-occupancy area). Approximately 515 cubic yards of PCB-impacted soil will be removed from within the existing transmission tower footprint (low-occupancy area). The cleanup level for the low-occupancy area is 25 ppm.

Verification sampling will be performed as discussed in Section 4.4. The 10.5-foot excavation may extend deeper based on the verification sample results. Verification samples have already been collected for the 4-foot and 6-foot excavations beneath the tower and these excavation depths have been finalized.

PSEG Fossil, LLC will establish a deed notice for the remaining PCB impacts in accordance with NJDEP and USEPA requirements to document soil contaminants remaining, identify use restrictions, and describe the engineering controls installed (cap).

Area 2.1:

PCBs were detected in soil in this area as high as 1,350 mg/kg. PCB-impacted soil at or above 1 mg/kg encompasses approximately 12,406 square feet to a maximum depth of 3.5 feet bgs. This area will be cleaned up for a low occupancy use. The cleanup will include the following components for the low occupancy use area as shown on Drawing 9:

- Excavation of soil with PCB concentrations above 100 mg/kg for off-Site disposal;
- Capping with a minimum of 6 inches of asphalt over soil with PCB concentrations above 1 mg/kg; and,
- Installation of a fence with the M^L mark around the area with PCB concentrations remaining above 10 mg/kg.

The excavation area is subdivided into three areas, each occupying approximately 2,693 square feet to a depth of 10 inches bgs, 4,862 square feet to a depth of 1.5 feet bgs, and 4,851 square feet to a depth 3.5 feet bgs. Approximately 985 cubic yards of PCB-impacted soil will be removed. The cap, approximately 12,406 square feet, will be constructed of asphalt (6 inches asphalt over 4 inches dense graded aggregate) in

accordance with 40 CFR §761.61 (a)(7). The fence will designate and separate the low occupancy use area from the remainder of the Site and will restrict access to the low occupancy area. PSEG will also establish a deed notice for the remaining PCB impacts in accordance with NJDEP and USEPA requirements to document soil contaminants remaining, identify use restrictions, and describe the engineering controls installed (cap and fence).

Area 2.2:

PCBs were detected in soil in this area as high as 100 mg/kg. PCB-impacted soil at or above 1 mg/kg encompasses approximately 2,593 square feet to a maximum depth of 14 feet bgs. This area will be cleaned up for a high occupancy use. The cleanup will include the following components as shown on Drawing 9:

- Excavation of soil in the southern portion of the area with PCB concentrations above 1 mg/kg for off-Site disposal in all directions except north of SB-230 and northeast of SB-219 where soil will remain between 1 and 10 mg/kg; and,
- Capping of remaining soil in this area with PCB concentrations above 1 mg/kg but below 10 mg/kg with a minimum of 6 inches of asphalt pavement (6 inches of asphalt over 4 inches of dense graded aggregate) and existing concrete structures.

The area of excavation occupies approximately 829 square feet to a depth of 14 feet bgs. Soil with PCB concentrations above 1 mg/kg but below 10 mg/kg will be capped in accordance with 40 CFR §761.61 (a)(7). Approximately 485 cubic yards of PCB-impacted soil will be removed. The area to be capped occupies approximately 1,764 square feet. PSEG will also establish a deed notice for the remaining PCB impacts in accordance with NJDEP and USEPA requirements to document soil contaminants remaining, identify use restrictions, and describe the engineering controls installed (cap).

Area 9.1:

PCBs were detected in soil in this area as high as 4 mg/kg. PCB-impacted soil at or above 1 mg/kg encompasses approximately 2,210 square feet. This area will be cleaned up for a high occupancy use. The cleanup will include capping with a minimum of 6 inches of asphalt (6 inches of asphalt over 4 inches of dense graded aggregate) over soil with PCB concentrations above 1 mg/kg in accordance with 40 CFR §761.61 (a)(7) as shown on Drawing 11. PSEG will also establish a deed notice for the remaining PCB impacts in accordance with NJDEP and USEPA requirements to document soil contaminants remaining, identify use restrictions, and describe the engineering controls installed (cap).

230 kV Switchyard:

PCBs were detected in soil in this area as high as 1.44 mg/kg. The PCB-impacted area occupies approximately 5,510 square feet. This area will be cleaned up to a low-occupancy use, as shown on Drawing 9.

PSEG will establish a deed notice for the remaining PCB impacts in accordance with NJDEP and USEPA requirements to document soil contaminants remaining, identify use restrictions, and describe the engineering controls installed (cap) needed to meet NJDEP requirements.

Peaking Units 13/14:

Soil with PCB concentrations above 1 mg/kg, but below 10 mg/kg is currently capped in accordance with 40 CFR §761.61 (a)(7). This area is proposed for high occupancy use. As part of the construction, the grade in the Peaking Units 13/14 area was raised approximately 4 feet. Some of the material used to raise grade included PCB-impacted soil that was excavated from the area to allow for installation of foundations. This PCB-impacted soil was reused within the project area beneath impervious surfaces (i.e., roads and generating station equipment), which function as capped areas. The entire Peaking Units 13/14 project area is covered with an approximately 240,645-square foot cap consisting of the following components as shown on Drawing 10:

- Concrete foundations that range in thickness from 6 inches to 1 foot;
- Gravel areas that consist of orange demarcation barrier overlain by 12 inches of clean fill material and 6 inches of gravel surface cover; and,
- Paved roadways that consist of 12 inches of compacted subbase, 8 inches of compacted aggregate base course, and 6 inches of asphalt pavement.

The PCB-impacted soil is only beneath the concrete foundations and asphalt roadway components of the cap. PSEG will also establish a deed notice for the remaining PCB impacts in accordance with NJDEP and USEPA requirements to document soil contaminants remaining, identify use restrictions, and describe the engineering controls installed (cap).

4.3 VERIFICATION SAMPLING

Verification samples will be collected in conformance with 40 CFR § 761.61(a)(6). However, a modification to the sampling frequency is proposed because 40 CFR § 761.61(a)(6) requires verification sampling to be conducted on a 1.5-meter (approximately 16 square feet [ft²]) grid interval. The proposed areas of excavation (32,346 square feet total) would require a total of 2,022 verification samples. Based on the areal extent of the excavation, we propose a reduced sampling frequency of one sample per 400 square feet of excavation bottom, with a minimum of three samples per excavation area. This sampling frequency is also consistent with NJDEP regulations and guidance. We are proposing no additional verification samples beneath the transmission tower in Area 1.1 as the supplemental sampling performed in 2019 and 2020 meets the verification sampling frequency requirements. No verification samples will be collected from capped areas. Therefore, 91 verification samples will be collected from the areas where excavation is proposed as described in Table 2 and shown on Drawings 8 and 9.

Verification samples will be collected in accordance with 40 CFR § 761.286. Sample preservation measures will be used to minimize sample decomposition by contamination, degradation, biological transformation, chemical interactions, and other factors during the time between sample collection and analysis. Samples will be refrigerated at approximately 4 degrees Celsius to maintain in situ characteristics. The samples will be collected using laboratory-decontaminated sampling equipment. Samples will be extracted by the laboratory within 14 days, and analyzed within 40 days after extraction. PCBs will be analyzed using USEPA Method 8082 in accordance with 40 CFR § 761.292.

4.4 EQUIPMENT DECONTAMINATION

Remediation equipment will be decontaminated in accordance with 40 CFR § 761.79(c)(2), which states that any person decontaminating movable equipment contaminated by PCBs, tools, and sampling equipment may do so with a double wash/rinse as defined in subpart S, 40 CFR § 761.375(a).

4.5 ON-SITE STORAGE OF PCBs FOR DISPOSAL

If PCB waste is stored on Site prior to disposal, storage will be in accordance with 40 CFR § 761.65(c)(1)(iii). Bulk PCB remediation waste, such as contaminated soil, may be temporarily stored on Site for up to 90 days. Soil containing hazardous levels of PCBs (i.e. greater than 50 mg/kg) will be staged in lined roll-off containers and covered to

prevent contact from precipitation. Soil containing non-hazardous levels of PCBs (i.e. less than 50 mg/kg) will be maintained in stockpiles covered with plastic sheeting to prevent erosion. The plastic sheeting will be weighted down and replaced if damaged or torn.

4.6 NOTIFICATIONS

Remediation of TSCA-regulated PCB-impacted soil is scheduled to begin no sooner than 30 days after submission of written notification (this Plan) to USEPA but after authorization from USEPA. Written notification will be provided to each off-site facility at least 15 days before the first shipment of bulk PCB remediation waste in accordance with 40 CFR 761.61(a)5(B)(2)(iv). The written notification will include the quantity to be shipped and highest concentration of PCBs. Approximately 17,000 tons of bulk PCB remediation waste (PCB-impacted soil exceeding 1 mg/kg as delineated on Drawings 4 through 7) is anticipated to be shipped off site for disposal. The highest concentration of PCBs to be shipped off site for disposal is 16,000 mg/kg. Upon completion of remediation, a report will be prepared documenting the PCB-impacted soil remedial action and will be submitted to the USEPA.

4.7 PROJECT SCHEDULE

Upon USEPA approval, the project will commence with cleanup activities on Site. Remediation is anticipated to begin in the fourth quarter 2019. Cleanup activities are anticipated to be completed by December 2020 in order to comply with the NJDEP remedial action timeframe for the Site. PSEG has a mandatory timeframe of May 2023 for completion of the remedial action. Following completion of the remediation, PSEG will establish a deed notice for the contaminants remaining on Site and to document the engineering controls and associated monitoring and maintenance requirements. PSEG will provide a copy of the remedial action report, which will include the deed notice, for the Site to the USEPA documenting the cleanup activities within three months of the project completion.

SECTION 5

POST-REMEDIATION REQUIREMENTS

5.1 RECORDKEEPING REQUIREMENTS

During the remedial action for the PCB remediation waste, Langan will keep field records of the area of the remediation. After the completion of remedial activities, a report, which will summarize the remedial activities, will be submitted to the USEPA.

The report will document the PCBs removed, verification sampling and results, data evaluation, and waste disposal.

SECTION 6 CERTIFICATION

6.1 CERTIFICATION

A report certification form is included as Appendix B, and is consistent with the requirements of 40 CFR §761.61.

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T A B L E S

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1411 BT-108(7.5-8.0) 460-169207-13 AOC-1 11/12/2018 mg/kg	1470 BT-109(10.0-10.5) 460-175187-12 AOC-1 2/11/2019 mg/kg	1435 PE-110(0-0.5) 460-169452-7 AOC-1 11/14/2018 mg/kg	1437 PE-111(0-0.5) 460-169452-9 AOC-1 11/14/2018 mg/kg
						Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	NA	0.02 U 0.02 0.15	NA	NA
Aroclor 1221	NS	NS	NS	NS	-	0.78 U 0.78 5.9	0.02 U 0.02 0.15	1 U 1 7.8	0.11 U 0.11 0.86
Aroclor 1232	NS	NS	NS	NS	-	0.78 U 0.78 5.9	0.02 U 0.02 0.15	1 U 1 7.8	0.11 U 0.11 0.86
Aroclor 1242	NS	NS	NS	NS	-	0.78 U 0.78 5.9	0.02 U 0.02 0.15	1 U 1 7.8	0.11 U 0.11 0.86
Aroclor 1248	NS	NS	NS	NS	-	0.78 U 0.78 5.9	0.02 U 0.02 0.15	1 U 1 7.8	0.11 U 0.11 0.86
Aroclor 1254	NS	NS	NS	NS	-	0.81 U 0.81 5.9	0.021 U 0.021 0.15	1.1 U 1.1 7.8	0.12 U 0.12 0.86
Aroclor 1260	NS	NS	NS	NS	-	78 D 0.81 5.9	2.9 0.021 0.15	85 D 1.1 7.8	13 D 0.12 0.86
Aroclor 1262	NS	NS	NS	NS	-	0.81 U 0.81 5.9	0.021 U 0.021 0.15	1.1 U 1.1 7.8	0.12 U 0.12 0.86
Aroclor 1268	NS	NS	NS	NS	-	0.81 U 0.81 5.9	0.021 U 0.021 0.15	1.1 U 1.1 7.8	0.12 U 0.12 0.86
Total PCBs	0.2	1	0.2	36	-	78	2.9	85	13

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1471 PE-112(0.0-0.5) 460-175187-13 AOC-1 2/11/2019 mg/kg	1474 DUP-3 (PE-112(0.0-0.5)) 460-175187-16 AOC-1 2/11/2019 mg/kg	1472 PE-113(0.0-0.5) 460-175187-14 AOC-1 2/11/2019 mg/kg	1475 DUP-4 (PE-113(0.0-0.5)) 460-175187-17 AOC-1 2/11/2019 mg/kg
						Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	2.1 U 2.1 16	0.54 U 0.54 4.1	0.02 U 0.02 0.15	0.053 U 0.053 0.4
Aroclor 1221	NS	NS	NS	NS	-	2.1 U 2.1 16	0.54 U 0.54 4.1	0.02 U 0.02 0.15	0.053 U 0.053 0.4
Aroclor 1232	NS	NS	NS	NS	-	2.1 U 2.1 16	0.54 U 0.54 4.1	0.02 U 0.02 0.15	0.053 U 0.053 0.4
Aroclor 1242	NS	NS	NS	NS	-	2.1 U 2.1 16	0.54 U 0.54 4.1	0.02 U 0.02 0.15	0.053 U 0.053 0.4
Aroclor 1248	NS	NS	NS	NS	-	2.1 U 2.1 16	0.54 U 0.54 4.1	0.02 U 0.02 0.15	0.053 U 0.053 0.4
Aroclor 1254	NS	NS	NS	NS	-	2.2 U 2.2 16	0.56 U 0.56 4.1	0.021 U 0.021 0.15	0.054 U 0.054 0.4
Aroclor 1260	NS	NS	NS	NS	-	260 2.2 16	62 0.56 4.1	2.4 0.021 0.15	5 0.054 0.4
Aroclor 1262	NS	NS	NS	NS	-	2.2 U 2.2 16	0.56 U 0.56 4.1	0.021 U 0.021 0.15	0.054 U 0.054 0.4
Aroclor 1268	NS	NS	NS	NS	-	2.2 U 2.2 16	0.56 U 0.56 4.1	0.021 U 0.021 0.15	0.054 U 0.054 0.4
Total PCBs	0.2	1	0.2	36	-	260	62	2.4	5

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1549 PE-119(0.0-0.5) 460-179573-2 AOC-1 4/10/2019 mg/kg	1546 PE-120(0.0-0.5) 460-179367-29 AOC-1 4/9/2019 mg/kg	1543 PE-121(0.0-0.5) 460-179367-26 AOC-1 4/9/2019 mg/kg	1544 DUP-3 (PE-121(0.0-0.5)) 460-179367-27 AOC-1 4/9/2019 mg/kg	1542 PE-122(0.0-0.5) 460-179367-25 AOC-1 4/9/2019 mg/kg
						Result Q MDL RL	Result Q MDL RL			
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	NA	0.096 U 0.096 0.73	0.054 U 0.054 0.41	0.11 U 0.11 0.83	0.019 U 0.019 0.14
Aroclor 1221	NS	NS	NS	NS	-	0.011 U 0.011 0.09	0.096 U 0.096 0.73	0.054 U 0.054 0.41	0.11 U 0.11 0.83	0.019 U 0.019 0.14
Aroclor 1232	NS	NS	NS	NS	-	0.011 U 0.011 0.09	0.096 U 0.096 0.73	0.054 U 0.054 0.41	0.11 U 0.11 0.83	0.019 U 0.019 0.14
Aroclor 1242	NS	NS	NS	NS	-	0.011 U 0.011 0.09	0.096 U 0.096 0.73	0.054 U 0.054 0.41	0.11 U 0.11 0.83	0.019 U 0.019 0.14
Aroclor 1248	NS	NS	NS	NS	-	0.011 U 0.011 0.09	0.096 U 0.096 0.73	0.054 U 0.054 0.41	0.11 U 0.11 0.83	0.019 U 0.019 0.14
Aroclor 1254	NS	NS	NS	NS	-	0.012 U 0.012 0.09	0.1 U 0.10 0.73	0.056 U 0.056 0.41	0.11 U 0.11 0.83	0.020 U 0.020 0.14
Aroclor 1260	NS	NS	NS	NS	-	0.67 0.012 0.09	12 0.10 0.73	6.1 0.056 0.41	8 0.11 0.83	1.8 0.020 0.14
Aroclor 1262	NS	NS	NS	NS	-	0.012 U 0.012 0.09	0.1 U 0.10 0.73	0.056 U 0.056 0.41	0.11 U 0.11 0.83	0.020 U 0.020 0.14
Aroclor 1268	NS	NS	NS	NS	-	0.012 U 0.012 0.09	0.1 U 0.10 0.73	0.056 U 0.056 0.41	0.11 U 0.11 0.83	0.020 U 0.020 0.14
Total PCBs	0.2	1	0.2	36	-	0.67	12	6.1	8	1.8

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1547 PE-124(0.0-0.5) 460-179367-30 AOC-1 4/9/2019 mg/kg	1545 PE-125(0.0-0.5) 460-179367-28 AOC-1 4/9/2019 mg/kg	1541 PE-126(0.0-0.5) 460-179367-24 AOC-1 4/9/2019 mg/kg	1540 PE-127(0.0-0.5) 460-179367-23 AOC-1 4/9/2019 mg/kg	1539 PE-128(0.0-0.5) 460-179367-22 AOC-1 4/9/2019 mg/kg
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	0.60 U 0.60 4.5	0.24 U 0.24 1.8	0.010 U 0.010 0.076	0.20 U 0.20 1.5	0.20 U 0.20 1.5
Aroclor 1221	NS	NS	NS	NS	-	0.60 U 0.60 4.5	0.24 U 0.24 1.8	0.010 U 0.010 0.076	0.20 U 0.20 1.5	0.20 U 0.20 1.5
Aroclor 1232	NS	NS	NS	NS	-	0.60 U 0.60 4.5	0.24 U 0.24 1.8	0.010 U 0.010 0.076	0.20 U 0.20 1.5	0.20 U 0.20 1.5
Aroclor 1242	NS	NS	NS	NS	-	0.60 U 0.60 4.5	0.24 U 0.24 1.8	0.010 U 0.010 0.076	0.20 U 0.20 1.5	0.20 U 0.20 1.5
Aroclor 1248	NS	NS	NS	NS	-	0.60 U 0.60 4.5	0.24 U 0.24 1.8	0.010 U 0.010 0.076	0.20 U 0.20 1.5	0.20 U 0.20 1.5
Aroclor 1254	NS	NS	NS	NS	-	0.62 U 0.62 4.5	0.25 U 0.25 1.8	0.010 U 0.010 0.076	0.21 U 0.21 1.5	0.21 U 0.21 1.5
Aroclor 1260	NS	NS	NS	NS	-	48 0.62 4.5	14 0.25 1.8	1.2 0.010 0.076	12 0.21 1.5	14 0.21 1.5
Aroclor 1262	NS	NS	NS	NS	-	0.62 U 0.62 4.5	0.25 U 0.25 1.8	0.010 U 0.010 0.076	0.21 U 0.21 1.5	0.21 U 0.21 1.5
Aroclor 1268	NS	NS	NS	NS	-	0.62 U 0.62 4.5	0.25 U 0.25 1.8	0.010 U 0.010 0.076	0.21 U 0.21 1.5	0.21 U 0.21 1.5
Total PCBs	0.2	1	0.2	36	-	48	14	1.2	12	14

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1645 PE-141(0.0-0.5) 460-181767-25 AOC-1 5/10/2019 mg/kg	1648 PE-142(0.0-0.5) 460-181767-28 AOC-1 5/10/2019 mg/kg	1650 DUP-4 (PE-142(0.0-0.5)) 460-181767-30 AOC-1 5/10/2019 mg/kg	1651 PE-143(0.0-0.5) 460-181767-31 AOC-1 5/10/2019 mg/kg	1654 PE-144(0.0-0.5) 460-181767-34 AOC-1 5/10/2019 mg/kg
						Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	NA	NA	NA	NA	NA
Aroclor 1221	NS	NS	NS	NS	-	0.0099 U 0.0099 0.074	0.0099 U 0.0099 0.075	0.0098 U 0.0098 0.074	0.049 U 0.049 0.37	1.0 U 1.0 7.9
Aroclor 1232	NS	NS	NS	NS	-	0.0099 U 0.0099 0.074	0.0099 U 0.0099 0.075	0.0098 U 0.0098 0.074	0.049 U 0.049 0.37	1.0 U 1.0 7.9
Aroclor 1242	NS	NS	NS	NS	-	0.0099 U 0.0099 0.074	0.0099 U 0.0099 0.075	0.0098 U 0.0098 0.074	0.049 U 0.049 0.37	1.0 U 1.0 7.9
Aroclor 1248	NS	NS	NS	NS	-	0.0099 U 0.0099 0.074	0.0099 U 0.0099 0.075	0.0098 U 0.0098 0.074	0.049 U 0.049 0.37	1.0 U 1.0 7.9
Aroclor 1254	NS	NS	NS	NS	-	0.010 U 0.010 0.074	0.010 U 0.010 0.075	0.010 U 0.010 0.074	0.051 U 0.051 0.37	1.1 U 1.1 7.9
Aroclor 1260	NS	NS	NS	NS	-	0.27 U 0.010 0.074	0.080 U 0.010 0.075	0.062 J 0.010 0.074	4.2 U 0.051 0.37	79 U 1.1 7.9
Aroclor 1262	NS	NS	NS	NS	-	0.010 U 0.010 0.074	0.010 U 0.010 0.075	0.010 U 0.010 0.074	0.051 U 0.051 0.37	1.1 U 1.1 7.9
Aroclor 1268	NS	NS	NS	NS	-	0.010 U 0.010 0.074	0.010 U 0.010 0.075	0.010 U 0.010 0.074	0.051 U 0.051 0.37	1.1 U 1.1 7.9
Total PCBs	0.2	1	0.2	36	-	0.27	0.08	0.062	4.2	79

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1656 PE-145(0.0-0.5) 460-181767-36 AOC-1 5/10/2019 mg/kg	1659 PE-146(0.0-0.5) 460-181767-39 AOC-1 5/10/2019 mg/kg	1658 PE-147(0.0-0.5) 460-181767-38 AOC-1 5/10/2019 mg/kg	1652 PE-151(0.0-0.5) 460-181767-32 AOC-1 5/10/2019 mg/kg	1653 PE-152(0.0-0.5) 460-181767-33 AOC-1 5/10/2019 mg/kg
						Result Q MDL RL				
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	NA	NA	NA	NA	NA
Aroclor 1221	NS	NS	NS	NS	-	0.011 U 0.011 0.084	0.28 U 0.28 2.1	0.59 U 0.59 4.5	0.0097 U 0.0097 0.073	0.099 U 0.099 0.74
Aroclor 1232	NS	NS	NS	NS	-	0.011 U 0.011 0.084	0.28 U 0.28 2.1	0.59 U 0.59 4.5	0.0097 U 0.0097 0.073	0.099 U 0.099 0.74
Aroclor 1242	NS	NS	NS	NS	-	0.011 U 0.011 0.084	0.28 U 0.28 2.1	0.59 U 0.59 4.5	0.0097 U 0.0097 0.073	0.099 U 0.099 0.74
Aroclor 1248	NS	NS	NS	NS	-	0.011 U 0.011 0.084	0.28 U 0.28 2.1	0.59 U 0.59 4.5	0.0097 U 0.0097 0.073	0.099 U 0.099 0.74
Aroclor 1254	NS	NS	NS	NS	-	0.011 U 0.011 0.084	0.29 U 0.29 2.1	0.61 U 0.61 4.5	0.010 U 0.010 0.073	0.10 U 0.10 0.74
Aroclor 1260	NS	NS	NS	NS	-	0.80 0.011 0.084	26 0.29 2.1	49 0.61 4.5	0.061 J 0.010 0.073	4.0 0.10 0.74
Aroclor 1262	NS	NS	NS	NS	-	0.011 U 0.011 0.084	0.29 U 0.29 2.1	0.61 U 0.61 4.5	0.010 U 0.010 0.073	0.10 U 0.10 0.74
Aroclor 1268	NS	NS	NS	NS	-	0.011 U 0.011 0.084	0.29 U 0.29 2.1	0.61 U 0.61 4.5	0.010 U 0.010 0.073	0.10 U 0.10 0.74
Total PCBs	0.2	1	0.2	36	-	0.8	26	49	0.061	4.0

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

F1 - MS and/or MSD Recovery is outside acceptance limits.

MSD - Matrix spike duplicate

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1655 PE-153(0.0-0.5) 460-181767-35 AOC-1 5/10/2019 mg/kg	1657 PE-154(0.0-0.5) 460-181767-37 AOC-1 5/10/2019 mg/kg	1660 PE-155(0.0-0.5) 460-181767-40 AOC-1 5/10/2019 mg/kg	1661 PE-156(0.0-0.5) 460-181767-41 AOC-1 5/10/2019 mg/kg	1697 PE-175(0.0-0.5) 460-183795-25 AOC-1 6/6/2019 mg/kg
						Result Q MDL RL	Result Q MDL RL			
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	NA	NA	NA	NA	0.24 U 0.24 1.8
Aroclor 1221	NS	NS	NS	NS	-	0.0099 U 0.0099 0.075	0.011 U 0.011 0.081	1.2 U 1.2 8.8	1.0 U 1.0 7.7	0.24 U 0.24 1.8
Aroclor 1232	NS	NS	NS	NS	-	0.0099 U 0.0099 0.075	0.011 U 0.011 0.081	1.2 U 1.2 8.8	1.0 U 1.0 7.7	0.24 U 0.24 1.8
Aroclor 1242	NS	NS	NS	NS	-	0.0099 U 0.0099 0.075	0.011 U 0.011 0.081	1.2 U 1.2 8.8	1.0 U 1.0 7.7	0.24 U 0.24 1.8
Aroclor 1248	NS	NS	NS	NS	-	0.0099 U 0.0099 0.075	0.011 U 0.011 0.081	1.2 U 1.2 8.8	1.0 U 1.0 7.7	0.24 U 0.24 1.8
Aroclor 1254	NS	NS	NS	NS	-	0.010 U 0.010 0.075	0.011 U 0.011 0.081	1.2 U 1.2 8.8	1.1 U 1.1 7.7	0.25 U 0.25 1.8
Aroclor 1260	NS	NS	NS	NS	-	0.92	0.43	180	120	31
Aroclor 1262	NS	NS	NS	NS	-	0.010 U 0.010 0.075	0.011 U 0.011 0.081	1.2 U 1.2 8.8	1.1 U 1.1 7.7	0.25 U 0.25 1.8
Aroclor 1268	NS	NS	NS	NS	-	0.010 U 0.010 0.075	0.011 U 0.011 0.081	1.2 U 1.2 8.8	1.1 U 1.1 7.7	0.25 U 0.25 1.8
Total PCBs	0.2	1	0.2	36	-	0.92	0.43	180	120	31

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1700 PE-176(0.0-0.5)				1699 PE-177(0.0-0.5)				1698 PE-178(0.0-0.5)				1707 DUP-2(PE-178(0.0-0.5))								
						460-183795-28 AOC-1 6/6/2019 mg/kg				460-183795-27 AOC-1 6/6/2019 mg/kg				460-183795-26 AOC-1 6/6/2019 mg/kg				460-183795-26 AOC-1 6/6/2019 mg/kg								
						Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL					
SOIL BY 8082A																										
Aroclor 1016	NS	NS	NS	NS	-	0.01	U	0.010	0.076	0.01	U	0.011	0.081	1.1	U	1.1	8.1	0.55	U	0.55	4.2					
Aroclor 1221	NS	NS	NS	NS	-	0.01	U	0.010	0.076	0.01	U	0.011	0.081	1.1	U	1.1	8.1	0.55	U	0.55	4.2					
Aroclor 1232	NS	NS	NS	NS	-	0.01	U	0.010	0.076	0.01	U	0.011	0.081	1.1	U	1.1	8.1	0.55	U	0.55	4.2					
Aroclor 1242	NS	NS	NS	NS	-	0.01	U	0.010	0.076	0.01	U	0.011	0.081	1.1	U	1.1	8.1	0.55	U	0.55	4.2					
Aroclor 1248	NS	NS	NS	NS	-	0.01	U	0.010	0.076	0.01	U	0.011	0.081	1.1	U	1.1	8.1	0.55	U	0.55	4.2					
Aroclor 1254	NS	NS	NS	NS	-	0.01	U	0.010	0.076	0.01	U	0.011	0.081	1.1	U	1.1	8.1	0.57	U	0.57	4.2					
Aroclor 1260	NS	NS	NS	NS	-	1.6		0.010	0.076	1		0.011	0.081	180		1.1	8.1	59		0.57	4.2					
Aroclor 1262	NS	NS	NS	NS	-	0.01	U	0.010	0.076	0.01	U	0.011	0.081	1.1	U	1.1	8.1	0.57	U	0.57	4.2					
Aroclor 1268	NS	NS	NS	NS	-	0.01	U	0.010	0.076	0.01	U	0.011	0.081	1.1	U	1.1	8.1	0.57	U	0.57	4.2					
Total PCBs	0.2	1	0.2	36	-	1.6		1.0		1.0		180		180		59										

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

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NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1702 PE-179(0.0-0.5) 460-183795-30 AOC-1 6/6/2019 mg/kg	1706 DUP-1(PE-179(0.0-0.5)) 460-183795-34 AOC-1 6/6/2019 mg/kg	1696 PE-180(0.0-0.5) 460-183795-24 AOC-1 6/6/2019 mg/kg	1720 PE-182(0.0-0.5) 460-184111-10 AOC-1 6/6/2019 mg/kg
						Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	0.76 U 0.76 5.7	1.1 U 1.1 8.2	0.0092 U 0.0092 0.07	0.054 U 0.054 0.40
Aroclor 1221	NS	NS	NS	NS	-	0.76 U 0.76 5.7	1.1 U 1.1 8.2	0.0092 U 0.0092 0.07	0.054 U 0.054 0.40
Aroclor 1232	NS	NS	NS	NS	-	0.76 U 0.76 5.7	1.1 U 1.1 8.2	0.0092 U 0.0092 0.07	0.054 U 0.054 0.40
Aroclor 1242	NS	NS	NS	NS	-	0.76 U 0.76 5.7	1.1 U 1.1 8.2	0.0092 U 0.0092 0.07	0.054 U 0.054 0.40
Aroclor 1248	NS	NS	NS	NS	-	0.76 U 0.76 5.7	1.1 U 1.1 8.2	0.0092 U 0.0092 0.07	0.054 U 0.054 0.40
Aroclor 1254	NS	NS	NS	NS	-	0.78 U 0.78 5.7	1.1 U 1.1 8.2	0.0096 U 0.0096 0.07	0.056 U 0.056 0.40
Aroclor 1260	NS	NS	NS	NS	-	91 0.78 5.7	170 1.1 8.2	0.25 0.0096 0.07	4.7 0.056 0.40
Aroclor 1262	NS	NS	NS	NS	-	0.78 U 0.78 5.7	1.1 U 1.1 8.2	0.0096 U 0.0096 0.07	0.056 U 0.056 0.40
Aroclor 1268	NS	NS	NS	NS	-	0.78 U 0.78 5.7	1.1 U 1.1 8.2	0.0096 U 0.0096 0.07	0.056 U 0.056 0.40
Total PCBs	0.2	1	0.2	36	-	91	170	0.25	4.7

Note:

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mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

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RL - Reporting limit

Qualifiers:

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F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1722 PE-184(0.0-0.5) 460-184111-12 AOC-1 6/6/2019 mg/kg	1724 PE-186(0.0-0.5) 460-184111-14 AOC-1 6/6/2019 mg/kg	1694 PE-188(0.0-0.5) 460-183795-21 AOC-1 6/6/2019 mg/kg	1725 PE-189(0.0-0.5) 460-184111-15 AOC-1 6/10/2019 mg/kg	1728 PE-191(0.0-0.5) 460-184111-18 AOC-1 6/10/2019 mg/kg
						Result Q MDL RL	Result Q MDL RL			
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	0.60 U 0.60 4.5	0.27 U 0.27 2.0	0.0092 U 0.0092 0.069	0.22 U 0.22 1.7	0.24 U 0.24 1.8
Aroclor 1221	NS	NS	NS	NS	-	0.60 U 0.60 4.5	0.27 U 0.27 2.0	0.0092 U 0.0092 0.069	0.22 U 0.22 1.7	0.24 U 0.24 1.8
Aroclor 1232	NS	NS	NS	NS	-	0.60 U 0.60 4.5	0.27 U 0.27 2.0	0.0092 U 0.0092 0.069	0.22 U 0.22 1.7	0.24 U 0.24 1.8
Aroclor 1242	NS	NS	NS	NS	-	0.60 U 0.60 4.5	0.27 U 0.27 2.0	0.0092 U 0.0092 0.069	0.22 U 0.22 1.7	0.24 U 0.24 1.8
Aroclor 1248	NS	NS	NS	NS	-	0.60 U 0.60 4.5	0.27 U 0.27 2.0	0.0092 U 0.0092 0.069	0.22 U 0.22 1.7	0.24 U 0.24 1.8
Aroclor 1254	NS	NS	NS	NS	-	0.62 U 0.62 4.5	0.27 U 0.27 2.0	0.0095 U 0.0095 0.069	0.23 U 0.23 1.7	0.25 U 0.25 1.8
Aroclor 1260	NS	NS	NS	NS	-	79 0.62 4.5	22 0.27 2.0	0.0095 J F: 0.0095 0.069	20 0.23 1.7	20 0.25 1.8
Aroclor 1262	NS	NS	NS	NS	-	0.62 U 0.62 4.5	0.27 U 0.27 2.0	0.0095 U 0.0095 0.069	0.23 U 0.23 1.7	0.25 U 0.25 1.8
Aroclor 1268	NS	NS	NS	NS	-	0.62 U 0.62 4.5	0.27 U 0.27 2.0	0.0095 U 0.0095 0.069	0.23 U 0.23 1.7	0.25 U 0.25 1.8
Total PCBs	0.2	1	0.2	36	-	79	22	0.0095	20	20

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

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Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1729 PE-192(0.0-0.5) 460-184111-19 AOC-1 6/10/2019 mg/kg	1727 PE-193(0.0-0.5) 460-184111-17 AOC-1 6/10/2019 mg/kg	1551 PE-197(0.0-0.5) 460-179573-4 AOC-1 4/10/2019 mg/kg	1736 PE-1011 (0.0-0.5) 460-184711-1 AOC-1 6/19/2019 mg/kg	1737 PE-1012 (0.0-0.5) 460-184711-2 AOC-1 6/19/2019 mg/kg
						Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	0.28 U 0.28 2.1	0.22 U 0.22 1.7	NA	0.0095 U 0.0095 0.071	0.57 U 0.57 4.3
Aroclor 1221	NS	NS	NS	NS	-	0.28 U 0.28 2.1	0.22 U 0.22 1.7	0.23 U 0.23 1.8	0.0095 U 0.0095 0.071	0.57 U 0.57 4.3
Aroclor 1232	NS	NS	NS	NS	-	0.28 U 0.28 2.1	0.22 U 0.22 1.7	0.23 U 0.23 1.8	0.0095 U 0.0095 0.071	0.57 U 0.57 4.3
Aroclor 1242	NS	NS	NS	NS	-	0.28 U 0.28 2.1	0.22 U 0.22 1.7	0.23 U 0.23 1.8	0.0095 U 0.0095 0.071	0.57 U 0.57 4.3
Aroclor 1248	NS	NS	NS	NS	-	0.28 U 0.28 2.1	0.22 U 0.22 1.7	0.23 U 0.23 1.8	0.0095 U 0.0095 0.071	0.57 U 0.57 4.3
Aroclor 1254	NS	NS	NS	NS	-	0.29 U 0.29 2.1	0.23 U 0.23 1.7	0.24 U 0.24 1.8	0.0098 U 0.0098 0.071	0.59 U 0.59 4.3
Aroclor 1260	NS	NS	NS	NS	-	26	0.29	17	0.24	0.51
Aroclor 1262	NS	NS	NS	NS	-	0.29 U 0.29 2.1	0.23 U 0.23 1.7	0.24 U 0.24 1.8	0.0098 U 0.0098 0.071	0.59 U 0.59 4.3
Aroclor 1268	NS	NS	NS	NS	-	0.29 U 0.29 2.1	0.23 U 0.23 1.7	0.24 U 0.24 1.8	0.0098 U 0.0098 0.071	0.59 U 0.59 4.3
Total PCBs	0.2	1	0.2	36	-	26	17	19	0.51	45

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1738 PE-1013 (0.0-0.5)				1739 PE-1014 (0.0-0.5)				1741 PE-1016 (0.0-0.5)				1742 PE-1017 (0.0-0.5)			
						460-184711-3 AOC-1 6/19/2019 mg/kg	460-184711-4 AOC-1 6/19/2019 mg/kg	460-184711-6 AOC-1 6/19/2019 mg/kg	460-184711-7 AOC-1 6/19/2019 mg/kg	460-184711-8 AOC-1 6/19/2019 mg/kg	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL						
SOIL BY 8082A																					
Aroclor 1016	NS	NS	NS	NS	-	0.15 U 0.15 1.1	0.059 U 0.059 0.44	0.0094 U 0.0094 0.071	0.12 U 0.12 0.91	0.026 U 0.026 0.19											
Aroclor 1221	NS	NS	NS	NS	-	0.15 U 0.15 1.1	0.059 U 0.059 0.44	0.0094 U 0.0094 0.071	0.12 U 0.12 0.91	0.026 U 0.026 0.19											
Aroclor 1232	NS	NS	NS	NS	-	0.15 U 0.15 1.1	0.059 U 0.059 0.44	0.0094 U 0.0094 0.071	0.12 U 0.12 0.91	0.026 U 0.026 0.19											
Aroclor 1242	NS	NS	NS	NS	-	0.15 U 0.15 1.1	0.059 U 0.059 0.44	0.0094 U 0.0094 0.071	0.12 U 0.12 0.91	0.026 U 0.026 0.19											
Aroclor 1248	NS	NS	NS	NS	-	0.15 U 0.15 1.1	0.059 U 0.059 0.44	0.0094 U 0.0094 0.071	0.12 U 0.12 0.91	0.026 U 0.026 0.19											
Aroclor 1254	NS	NS	NS	NS	-	0.15 U 0.15 1.1	0.059 U 0.059 0.44	0.0094 U 0.0094 0.071	0.12 U 0.12 0.91	0.026 U 0.026 0.19											
Aroclor 1260	NS	NS	NS	NS	-	13	0.15 1.1	2.7 0.060 0.44	0.0097 U 0.0097 0.071	8.4 0.13 0.91	2.5 0.027 0.19										
Aroclor 1262	NS	NS	NS	NS	-	0.15 U 0.15 1.1	0.060 U 0.060 0.44	0.0097 U 0.0097 0.071	0.13 U 0.13 0.91	0.027 U 0.027 0.19											
Aroclor 1268	NS	NS	NS	NS	-	0.15 U 0.15 1.1	0.060 U 0.060 0.44	0.0097 U 0.0097 0.071	0.13 U 0.13 0.91	0.027 U 0.027 0.19											
Total PCBs	0.2	1	0.2	36	-	13	2.7	0.0097		8.4	2.5										

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1743 PE-1019 (0.0-0.5) 460-184711-9 AOC-1 6/19/2019 mg/kg	1748 PE-1023 (0.0-0.5) 460-184711-13 AOC-1 6/19/2019 mg/kg	1749 PE-1024 (0.0-0.5) 460-184711-14 AOC-1 6/19/2019 mg/kg	1750 PE-1025 (0.0-0.5) 460-184711-15 AOC-1 6/19/2019 mg/kg	1751 PE-1026 (0.0-0.5) 460-184711-16 AOC-1 6/19/2019 mg/kg
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	0.024 U 0.024 0.18	0.0094 U 0.0094 0.071	0.011 U 0.011 0.086	0.012 U 0.012 0.094	0.012 U 0.012 0.089
Aroclor 1221	NS	NS	NS	NS	-	0.024 U 0.024 0.18	0.0094 U 0.0094 0.071	0.011 U 0.011 0.086	0.012 U 0.012 0.094	0.012 U 0.012 0.089
Aroclor 1232	NS	NS	NS	NS	-	0.024 U 0.024 0.18	0.0094 U 0.0094 0.071	0.011 U 0.011 0.086	0.012 U 0.012 0.094	0.012 U 0.012 0.089
Aroclor 1242	NS	NS	NS	NS	-	0.024 U 0.024 0.18	0.0094 U 0.0094 0.071	0.011 U 0.011 0.086	0.012 U 0.012 0.094	0.012 U 0.012 0.089
Aroclor 1248	NS	NS	NS	NS	-	0.024 U 0.024 0.18	0.0094 U 0.0094 0.071	0.011 U 0.011 0.086	0.012 U 0.012 0.094	0.012 U 0.012 0.089
Aroclor 1254	NS	NS	NS	NS	-	0.025 U 0.025 0.18	0.0097 U 0.0097 0.071	0.012 U 0.012 0.086	0.013 U 0.013 0.094	0.012 U 0.012 0.089
Aroclor 1260	NS	NS	NS	NS	-	2.0 0.025 0.18	0.0097 U 0.0097 0.071	1.7 0.012 0.086	1.9 0.013 0.094	1.4 0.012 0.089
Aroclor 1262	NS	NS	NS	NS	-	0.025 U 0.025 0.18	0.0097 U 0.0097 0.071	0.012 U 0.012 0.086	0.013 U 0.013 0.094	0.012 U 0.012 0.089
Aroclor 1268	NS	NS	NS	NS	-	0.025 U 0.025 0.18	0.0097 U 0.0097 0.071	0.012 U 0.012 0.086	0.013 U 0.013 0.094	0.012 U 0.012 0.089
Total PCBs	0.2	1	0.2	36	-	2.0	0.0097	1.7	1.9	1.4

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1772 PE-1027 (0.0-0.5) 460-185667-13 AOC-1 7/1/2019 mg/kg	1760 PE-1028 (0.0-0.5) 460-185667-1 AOC-1 7/1/2019 mg/kg	1761 PE-1029 (0.0-0.5) 460-185667-2 AOC-1 7/1/2019 mg/kg	141 SB-101A(0.0-0.5) 61126-15 AOC-1 8/12/2013 mg/kg	505 SB-126-A(1.0-1.5) 76017-13 AOC-1 5/12/2014 mg/kg
						Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	NA	NA	NA	ND U 1.7 7.8	ND U 0.95 4.3
Aroclor 1221	NS	NS	NS	NS	-	0.010 U 0.010 0.077	0.013 U 0.013 0.096	0.012 U 0.012 0.088	ND U 1.7 7.8	ND U 0.95 4.3
Aroclor 1232	NS	NS	NS	NS	-	0.010 U 0.010 0.077	0.013 U 0.013 0.096	0.012 U 0.012 0.088	ND U 1.7 7.8	ND U 0.95 4.3
Aroclor 1242	NS	NS	NS	NS	-	0.010 U 0.010 0.077	0.013 U 0.013 0.096	0.012 U 0.012 0.088	ND U 1.7 7.8	ND U 0.95 4.3
Aroclor 1248	NS	NS	NS	NS	-	0.010 U 0.010 0.077	0.013 U 0.013 0.096	0.012 U 0.012 0.088	ND U 1.7 7.8	ND U 0.95 4.3
Aroclor 1254	NS	NS	NS	NS	-	0.011 U 0.011 0.077	0.013 U 0.013 0.096	0.012 U 0.012 0.088	ND U 2.2 7.8	ND U 1.2 4.3
Aroclor 1260	NS	NS	NS	NS	-	0.40 0.011 0.077	0.76 0.013 0.096	0.32 0.012 0.088	54 2.2 7.8	34 1.2 4.3
Aroclor 1262	NS	NS	NS	NS	-	0.011 U 0.011 0.077	0.013 U 0.013 0.096	0.012 U 0.012 0.088	ND U 2.2 7.8	ND U 1.2 4.3
Aroclor 1268	NS	NS	NS	NS	-	0.011 U 0.011 0.077	0.013 U 0.013 0.096	0.012 U 0.012 0.088	ND U 2.2 7.8	ND U 1.2 4.3
Total PCBs	0.2	1	0.2	36	-	0.4	0.76	0.32	54	34

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	506 SB-126-C(11.5-12.0) 76017-15 AOC-2 5/13/2014 mg/kg	1173 SB-130(0.16-0.66) 460-133944-28 AOC-1 5/23/2017 mg/kg	1177 SB-131(0.16-0.66) 460-133944-29 AOC-1 5/24/2017 mg/kg	1178 SB-133(0.16-0.66) 460-134032-2 AOC-1 5/24/2017 mg/kg	1185 SB-134(0-0.5) 460-134032-9 AOC-1 5/24/2017 mg/kg
						Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	ND U 0.074 0.33	ND U 0.0098 0.074	ND U 0.0097 0.073	ND U 0.0096 0.072	ND U 0.0099 0.074
Aroclor 1221	NS	NS	NS	NS	-	ND U 0.074 0.33	ND U 0.0098 0.074	ND U 0.0097 0.073	ND U 0.0096 0.072	ND U 0.0099 0.074
Aroclor 1232	NS	NS	NS	NS	-	ND U 0.074 0.33	ND U 0.0098 0.074	ND U 0.0097 0.073	ND U 0.0096 0.072	ND U 0.0099 0.074
Aroclor 1242	NS	NS	NS	NS	-	ND U 0.074 0.33	ND U 0.0098 0.074	ND U 0.0097 0.073	ND U 0.0096 0.072	ND U 0.0099 0.074
Aroclor 1248	NS	NS	NS	NS	-	ND U 0.074 0.33	ND U 0.0098 0.074	ND U 0.0097 0.073	ND U 0.0096 0.072	ND U 0.0099 0.074
Aroclor 1254	NS	NS	NS	NS	-	ND U 0.074 0.33	ND U 0.0098 0.074	ND U 0.0097 0.073	ND U 0.0096 0.072	ND U 0.0099 0.074
Aroclor 1260	NS	NS	NS	NS	-	ND U 0.074 0.33	ND U 0.0098 0.074	ND U 0.0097 0.073	ND U 0.0096 0.072	ND U 0.0099 0.074
Aroclor 1262	NS	NS	NS	NS	-	ND U 0.074 0.33	ND U 0.0098 0.074	ND U 0.0097 0.073	ND U 0.0096 0.072	ND U 0.0099 0.074
Aroclor 1268	NS	NS	NS	NS	-	ND U 0.074 0.33	ND U 0.0098 0.074	ND U 0.0097 0.073	ND U 0.0096 0.072	ND U 0.0099 0.074
Total PCBs	0.2	1	0.2	36	-	0.73	0.083	1.3	0.2	0.89

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1189 SB-135(0-0.5) 460-134032-13 AOC-1 5/24/2017 mg/kg	1183 SB-136(0-0.5) 460-134032-7 AOC-1 5/24/2017 mg/kg	1187 SB-137(0-0.5) 460-134032-11 AOC-1 5/24/2017 mg/kg	1436 SB-193(0-0.5) 460-169452-8 AOC-1 11/14/2018 mg/kg	1473 SB-194(0-0.5) 460-175187-15 AOC-1 2/11/2019 mg/kg
						Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	ND U 1 7.7	ND U 0.013 0.1	ND U 0.11 0.79	NA	0.01 U 0.01 0.1
Aroclor 1221	NS	NS	NS	NS	-	ND U 1 7.7	ND U 0.013 0.1	ND U 0.11 0.79	2.7 U 2.7 20	0.01 U 0.01 0.1
Aroclor 1232	NS	NS	NS	NS	-	ND U 1 7.7	ND U 0.013 0.1	ND U 0.11 0.79	2.7 U 2.7 20	0.01 U 0.01 0.1
Aroclor 1242	NS	NS	NS	NS	-	ND U 1 7.7	ND U 0.013 0.1	ND U 0.11 0.79	2.7 U 2.7 20	0.01 U 0.01 0.1
Aroclor 1248	NS	NS	NS	NS	-	ND U 1 7.7	ND U 0.013 0.1	ND U 0.11 0.79	2.7 U 2.7 20	0.01 U 0.01 0.1
Aroclor 1254	NS	NS	NS	NS	-	ND U 1.1 7.7	ND U 0.014 0.1	ND U 0.11 0.79	2.8 U 2.8 20	0.011 U 0.011 0.1
Aroclor 1260	NS	NS	NS	NS	-	89 1.1 7.7	0.46 0.014 0.1	11 0.11 0.79	360 D 2.8 20	1.1 0.011 0.1
Aroclor 1262	NS	NS	NS	NS	-	ND U 1.1 7.7	ND U 0.014 0.1	ND U 0.11 0.79	2.8 U 2.8 20	0.011 U 0.011 0.1
Aroclor 1268	NS	NS	NS	NS	-	ND U 1.1 7.7	ND U 0.014 0.1	ND U 0.11 0.79	2.8 U 2.8 20	0.011 U 0.011 0.1
Total PCBs	0.2	1	0.2	36	-	89	0.46 0.014 0.1	11 0.11 0.79	360	1.1

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1552 SB-195(0.0-0.5) 460-179573-5 AOC-1 4/10/2019 mg/kg	1555 SB-196(0.0-0.5) 460-179573-8 AOC-1 4/10/2019 mg/kg	1554 DUP-4 (SB-196(0.0-0.5)) 460-179573-7 AOC-1 4/10/2019 mg/kg	1553 SB-198(0.0-0.5) 460-179573-6 AOC-1 4/10/2019 mg/kg
						Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	NA	NA	NA	NA
Aroclor 1221	NS	NS	NS	NS	-	0.24 U 0.24 1.8	0.60 U 0.60 4.5	0.60 U 0.60 4.5	5.8 U 5.8 44
Aroclor 1232	NS	NS	NS	NS	-	0.24 U 0.24 1.8	0.60 U 0.60 4.5	0.60 U 0.60 4.5	5.8 U 5.8 44
Aroclor 1242	NS	NS	NS	NS	-	0.24 U 0.24 1.8	0.60 U 0.60 4.5	0.60 U 0.60 4.5	5.8 U 5.8 44
Aroclor 1248	NS	NS	NS	NS	-	0.24 U 0.24 1.8	0.60 U 0.60 4.5	0.60 U 0.60 4.5	5.8 U 5.8 44
Aroclor 1254	NS	NS	NS	NS	-	0.25 U 0.25 1.8	0.62 U 0.62 4.5	0.62 U 0.62 4.5	6 U 6 44
Aroclor 1260	NS	NS	NS	NS	-	19	42	48	460
Aroclor 1262	NS	NS	NS	NS	-	0.25 U 0.25 1.8	0.62 U 0.62 4.5	0.62 U 0.62 4.5	6 U 6 44
Aroclor 1268	NS	NS	NS	NS	-	0.25 U 0.25 1.8	0.62 U 0.62 4.5	0.62 U 0.62 4.5	6 U 6 44
Total PCBs	0.2	1	0.2	36	-	19	42	48	460

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

- | | |
|-----------|---|
| 10 | - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard |
| 10 | - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard |
| 10 | - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard |
| 15 | - MDL exceeds standard |

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1556 SB-199(0.0-0.5) 460-179573-9 AOC-1 4/10/2019 mg/kg	1662 SB-1000(0.0-0.5) 460-181767-42 AOC-1 5/10/2019 mg/kg	1664 DUP-5 (SB-1000(0.0-0.5)) 460-181767-44 AOC-1 5/10/2019 mg/kg	1666 SB-1001(0.0-0.5) 460-181767-46 AOC-1 5/10/2019 mg/kg
						Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	NA	NA	NA	NA
Aroclor 1221	NS	NS	NS	NS	-	1 U 1 7.9	1.4 U 1.4 11	1.3 U 1.3 9.6	2.3 U 2.3 18
Aroclor 1232	NS	NS	NS	NS	-	1 U 1 7.9	1.4 U 1.4 11	1.3 U 1.3 9.6	2.3 U 2.3 18
Aroclor 1242	NS	NS	NS	NS	-	1 U 1 7.9	1.4 U 1.4 11	1.3 U 1.3 9.6	2.3 U 2.3 18
Aroclor 1248	NS	NS	NS	NS	-	1 U 1 7.9	1.4 U 1.4 11	1.3 U 1.3 9.6	2.3 U 2.3 18
Aroclor 1254	NS	NS	NS	NS	-	1.1 U 1.1 7.9	1.5 U 1.5 11	1.3 U 1.3 9.6	2.4 U 2.4 18
Aroclor 1260	NS	NS	NS	NS	-	100 1.1 7.9	120 1.5 11	93 1.3 9.6	160 2.4 18
Aroclor 1262	NS	NS	NS	NS	-	1.1 U 1.1 7.9	1.5 U 1.5 11	1.3 U 1.3 9.6	2.4 U 2.4 18
Aroclor 1268	NS	NS	NS	NS	-	1.1 U 1.1 7.9	1.5 U 1.5 11	1.3 U 1.3 9.6	2.4 U 2.4 18
Total PCBs	0.2	1	0.2	36	-	100	120	93	160

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1671 SB-1002(0.0-0.5) 460-181767-51 AOC-1 5/10/2019 mg/kg	1670 SB-1003(0.0-0.5) 460-181767-50 AOC-1 5/10/2019 mg/kg	1663 SB-1004(0.0-0.5) 460-181767-43 AOC-1 5/10/2019 mg/kg	1665 SB-1005(0.0-0.5) 460-181767-45 AOC-1 5/10/2019 mg/kg	1667 SB-1006(0.0-0.5) 460-181767-47 AOC-1 5/10/2019 mg/kg
						Result Q MDL RL				
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	NA	NA	NA	NA	NA
Aroclor 1221	NS	NS	NS	NS	-	0.65 U 0.65 4.9	0.062 U 0.062 0.47	0.012 U 0.012 0.089	0.010 U 0.010 0.079	0.022 U 0.022 0.16
Aroclor 1232	NS	NS	NS	NS	-	0.65 U 0.65 4.9	0.062 U 0.062 0.47	0.012 U 0.012 0.089	0.010 U 0.010 0.079	0.022 U 0.022 0.16
Aroclor 1242	NS	NS	NS	NS	-	0.65 U 0.65 4.9	0.062 U 0.062 0.47	0.012 U 0.012 0.089	0.010 U 0.010 0.079	0.022 U 0.022 0.16
Aroclor 1248	NS	NS	NS	NS	-	0.65 U 0.65 4.9	0.062 U 0.062 0.47	0.012 U 0.012 0.089	0.010 U 0.010 0.079	0.022 U 0.022 0.16
Aroclor 1254	NS	NS	NS	NS	-	0.67 U 0.67 4.9	0.065 U 0.065 0.47	0.012 U 0.012 0.089	0.011 U 0.011 0.079	0.022 U 0.022 0.16
Aroclor 1260	NS	NS	NS	NS	-	69 0.67 4.9	5.6 0.065 0.47	1.3 0.012 0.089	0.45 0.011 0.079	1.6 0.022 0.16
Aroclor 1262	NS	NS	NS	NS	-	0.67 U 0.67 4.9	0.065 U 0.065 0.47	0.012 U 0.012 0.089	0.011 U 0.011 0.079	0.022 U 0.022 0.16
Aroclor 1268	NS	NS	NS	NS	-	0.67 U 0.67 4.9	0.065 U 0.065 0.47	0.012 U 0.012 0.089	0.011 U 0.011 0.079	0.022 U 0.022 0.16
Total PCBs	0.2	1	0.2	36	-	69	5.6	1.3	0.45	1.6

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

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NS - No standard

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RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1668 SB-1007(0.0-0.5) 460-181767-48 AOC-1 5/10/2019 mg/kg	1669 SB-1008(0.0-0.5) 460-181767-49 AOC-1 5/10/2019 mg/kg	1705 SB-1009(0.0-0.5) 460-181767-33 AOC-1 6/6/2019 mg/kg	1704 SB-1010(0.0-0.5) 460-181767-32 AOC-1 6/6/2019 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	NA	NA	0.0091 U 0.0091 0.068	0.011 U 0.011 0.082
Aroclor 1221	NS	NS	NS	NS	-	0.011 U 0.011 0.081	0.012 U 0.012 0.091	0.0091 U 0.0091 0.068	0.011 U 0.011 0.082
Aroclor 1232	NS	NS	NS	NS	-	0.011 U 0.011 0.081	0.012 U 0.012 0.091	0.0091 U 0.0091 0.068	0.011 U 0.011 0.082
Aroclor 1242	NS	NS	NS	NS	-	0.011 U 0.011 0.081	0.012 U 0.012 0.091	0.0091 U 0.0091 0.068	0.011 U 0.011 0.082
Aroclor 1248	NS	NS	NS	NS	-	0.011 U 0.011 0.081	0.012 U 0.012 0.091	0.0091 U 0.0091 0.068	0.011 U 0.011 0.082
Aroclor 1254	NS	NS	NS	NS	-	0.011 U 0.011 0.081	0.013 U 0.013 0.091	0.0094 U 0.0094 0.068	0.011 U 0.011 0.082
Aroclor 1260	NS	NS	NS	NS	-	0.54 0.011 0.081	1.3 0.013 0.091	0.17 0.0094 0.068	0.59 0.011 U 0.011 0.082
Aroclor 1262	NS	NS	NS	NS	-	0.011 U 0.011 0.081	0.013 U 0.013 0.091	0.0094 U 0.0094 0.068	0.011 U 0.011 0.082
Aroclor 1268	NS	NS	NS	NS	-	0.011 U 0.011 0.081	0.013 U 0.013 0.091	0.0094 U 0.0094 0.068	0.011 U 0.011 0.082
Total PCBs	0.2	1	0.2	36	-	0.54	1.3	0.17	0.59

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1703 SB-1011(0.0-0.5) 460-181767-31 AOC-1 6/6/2019 mg/kg	1733 SB-1015(0.0-0.5) 460-184111-23 AOC-1 6/10/2019 mg/kg	1752 SB-1018 (0.0-0.5) 460-184111-17 AOC-1 6/19/2019 mg/kg	1753 SB-1019 (0.0-0.5) 460-184111-18 AOC-1 6/19/2019 mg/kg	1755 SB-1020(0.0-0.5) 460-185346-1 AOC-1 6/27/2019 mg/kg
						Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.024 U 0.024 0.18	0.061 U 0.061 0.46	0.0098 U 0.0098 0.073	0.0096 U 0.0096 0.072
Aroclor 1221	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.024 U 0.024 0.18	0.061 U 0.061 0.46	0.0098 U 0.0098 0.073	0.0096 U 0.0096 0.072
Aroclor 1232	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.024 U 0.024 0.18	0.061 U 0.061 0.46	0.0098 U 0.0098 0.073	0.0096 U 0.0096 0.072
Aroclor 1242	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.024 U 0.024 0.18	0.061 U 0.061 0.46	0.0098 U 0.0098 0.073	0.0096 U 0.0096 0.072
Aroclor 1248	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.024 U 0.024 0.18	0.061 U 0.061 0.46	0.0098 U 0.0098 0.073	0.0096 U 0.0096 0.072
Aroclor 1254	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.025 U 0.025 0.18	0.063 U 0.063 0.46	0.010 U 0.010 0.073	0.0099 U 0.0099 0.072
Aroclor 1260	NS	NS	NS	NS	-	0.087 0.011 0.082	2.3 0.025 0.18	3.4 0.063 0.46	0.22 0.010 0.073	0.0099 U 0.0099 0.072
Aroclor 1262	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.025 U 0.025 0.18	0.063 U 0.063 0.46	0.010 U 0.010 0.073	0.0099 U 0.0099 0.072
Aroclor 1268	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.025 U 0.025 0.18	0.063 U 0.063 0.46	0.010 U 0.010 0.073	0.0099 U 0.0099 0.072
Total PCBs	0.2	1	0.2	36	-	0.087	2.3	3.4	0.22	0.099 U

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1757 SB-1022(0.0-0.5) 460-185346-3 AOC-1 6/27/2019 mg/kg	1759 DUP-2 [SB-1020(0.0-0.5)] 460-185346-5 AOC-1 6/27/2019 mg/kg	1774 VS-101 (2-2.5) 460-198948-1 AOC-1 12/16/2019 mg/kg	1780 DUP-1 (VS-101(2-2.5)) 460-198948-7 AOC-1 12/16/2019 mg/kg	1775 VS-101 (3-3.5) 460-198948-2 AOC-1 12/16/2019 mg/kg
						Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	0.013 U 0.013 0.096	0.010 U 0.010 0.077	0.052 J F 0.052 0.39	0.052 U 0.052 0.39	110 U 110 810
Aroclor 1221	NS	NS	NS	NS	-	0.013 U 0.013 0.096	0.010 U 0.010 0.077	0.052 U 0.052 0.39	0.052 U 0.052 0.39	110 U 110 810
Aroclor 1232	NS	NS	NS	NS	-	0.013 U 0.013 0.096	0.010 U 0.010 0.077	0.052 U 0.052 0.39	0.052 U 0.052 0.39	110 U 110 810
Aroclor 1242	NS	NS	NS	NS	-	0.013 U 0.013 0.096	0.010 U 0.010 0.077	0.052 U 0.052 0.39	0.052 U 0.052 0.39	110 U 110 810
Aroclor 1248	NS	NS	NS	NS	-	0.013 U 0.013 0.096	0.010 U 0.010 0.077	0.052 U 0.052 0.39	0.052 U 0.052 0.39	110 U 110 810
Aroclor 1254	NS	NS	NS	NS	-	0.013 U 0.013 0.096	0.011 U 0.011 0.077	0.054 U 0.054 0.39	0.054 U 0.054 0.39	110 U 110 810
Aroclor 1260	NS	NS	NS	NS	-	0.20 0.013 0.096	0.084 0.011 0.077	3.8 0.054 0.39	4.2 0.054 0.39	16000 110 810
Aroclor 1262	NS	NS	NS	NS	-	0.013 U 0.013 0.096	0.011 U 0.011 0.077	0.054 U 0.054 0.39	0.054 U 0.054 0.39	110 U 110 810
Aroclor 1268	NS	NS	NS	NS	-	0.013 U 0.013 0.096	0.011 U 0.011 0.077	0.054 U 0.054 0.39	0.054 U 0.054 0.39	110 U 110 810
Total PCBs	0.2	1	0.2	36	-	0.20	0.084	3.8 0.054 0.39	4.2 0.054 0.39	16000 110 810

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

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Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

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10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1789 VS-101 (4-4.5) 460-200582-1 AOC-1 1/13/2020 mg/kg	1790 VS-101 (5-5.5) 460-200582-2 AOC-1 1/13/2020 mg/kg	1792 VS-101 (6-6.5) 460-200582-4 AOC-1 1/13/2020 mg/kg	1785 VS-102 (2-2.5) 460-198948-12 AOC-1 12/16/2019 mg/kg	1786 VS-102 (3-3.5) 460-198948-13 AOC-1 12/16/2019 mg/kg
						Result Q MDL RL	Result Q MDL RL			
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	5.6 U 5.6 42	110 U 110 790	0.060 U 0.060 0.45	0.26 U 0.26 2.0	0.011 U 0.011 0.080
Aroclor 1221	NS	NS	NS	NS	-	5.6 U 5.6 42	110 U 110 790	0.060 U 0.060 0.45	0.26 U 0.26 2.0	0.011 U 0.011 0.080
Aroclor 1232	NS	NS	NS	NS	-	5.6 U 5.6 42	110 U 110 790	0.060 U 0.060 0.45	0.26 U 0.26 2.0	0.011 U 0.011 0.080
Aroclor 1242	NS	NS	NS	NS	-	5.6 U 5.6 42	110 U 110 790	0.060 U 0.060 0.45	0.26 U 0.26 2.0	0.011 U 0.011 0.080
Aroclor 1248	NS	NS	NS	NS	-	5.6 U 5.6 42	110 U 110 790	0.060 U 0.060 0.45	0.26 U 0.26 2.0	0.011 U 0.011 0.080
Aroclor 1254	NS	NS	NS	NS	-	5.8 U 5.8 42	110 U 110 790	0.062 U 0.062 0.45	0.27 U 0.27 2.0	0.011 U 0.011 0.080
Aroclor 1260	NS	NS	NS	NS	-	340 5.8 42	8100 110 790	4.8 0.062 0.45	25 0.27 2.0	0.21 0.011 0.080
Aroclor 1262	NS	NS	NS	NS	-	5.8 U 5.8 42	110 U 110 790	0.062 U 0.062 0.45	0.27 U 0.27 2.0	0.011 U 0.011 0.080
Aroclor 1268	NS	NS	NS	NS	-	5.8 U 5.8 42	110 U 110 790	0.062 U 0.062 0.45	0.27 U 0.27 2.0	0.011 U 0.011 0.080
Total PCBs	0.2	1	0.2	36	-	340 5.8 42	8100 110 790	4.8 0.062 0.45	25 0.27 2.0	0.21 0.011 0.080

Note:

MDL - Method detection limit

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MS - Matrix spike

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NA - Not analyzed

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Qualifiers:

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Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1795 VS-102 (4-4.5) 460-200582-7 AOC-1 1/13/2020 mg/kg	1791 DUP-1 (VS-102 (4-4.5)) 460-198948-3 AOC-1 1/13/2020 mg/kg	1781 VS-103 (2-2.5) 460-198948-8 AOC-1 12/16/2019 mg/kg	1782 VS-103 (3-3.5) 460-198948-9 AOC-1 12/16/2019 mg/kg	1800 VS-103 (4-4.5) 460-200582-12 AOC-1 1/13/2020 mg/kg
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	0.11 U 0.11 0.80	0.011 U 0.011 0.081	0.010 U 0.010 0.079	0.10 U 0.10 0.79	0.051 U 0.051 0.39
Aroclor 1221	NS	NS	NS	NS	-	0.11 U 0.11 0.80	0.011 U 0.011 0.081	0.010 U 0.010 0.079	0.10 U 0.10 0.79	0.051 U 0.051 0.39
Aroclor 1232	NS	NS	NS	NS	-	0.11 U 0.11 0.80	0.011 U 0.011 0.081	0.010 U 0.010 0.079	0.10 U 0.10 0.79	0.051 U 0.051 0.39
Aroclor 1242	NS	NS	NS	NS	-	0.11 U 0.11 0.80	0.011 U 0.011 0.081	0.010 U 0.010 0.079	0.10 U 0.10 0.79	0.051 U 0.051 0.39
Aroclor 1248	NS	NS	NS	NS	-	0.11 U 0.11 0.80	0.011 U 0.011 0.081	0.010 U 0.010 0.079	0.10 U 0.10 0.79	0.051 U 0.051 0.39
Aroclor 1254	NS	NS	NS	NS	-	0.11 U 0.11 0.80	0.011 U 0.011 0.081	0.011 U 0.011 0.079	0.11 U 0.11 0.79	0.053 U 0.053 0.39
Aroclor 1260	NS	NS	NS	NS	-	9.8 0.11 0.80	1.5 0.011 0.081	0.20 0.011 0.079	10 0.11 0.79	6.0 0.053 0.39
Aroclor 1262	NS	NS	NS	NS	-	0.11 U 0.11 0.80	0.011 U 0.011 0.081	0.011 U 0.011 0.079	0.11 U 0.11 0.79	0.053 U 0.053 0.39
Aroclor 1268	NS	NS	NS	NS	-	0.11 U 0.11 0.80	0.011 U 0.011 0.081	0.011 U 0.011 0.079	0.11 U 0.11 0.79	0.053 U 0.053 0.39
Total PCBs	0.2	1	0.2	36	-	9.8 0.11 0.80	1.5 0.011 0.081	0.20 0.011 0.079	10 0.11 0.79	6.0 0.053 0.39

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

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Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

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Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1787 VS-104 (2-2.5) 460-198948-14 AOC-1 12/16/2019 mg/kg	1788 VS-104 (3-3.5) 460-198948-15 AOC-1 12/16/2019 mg/kg	1805 VS-104 (4-4.5) 460-200582-17 AOC-1 1/13/2020 mg/kg	1776 VS-105 (2-2.5) 460-198948-3 AOC-1 12/16/2019 mg/kg	1777 VS-105 (3-3.5) 460-198948-4 AOC-1 12/16/2019 mg/kg
						Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL	Result Q MDL RL
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	2.1 U 2.1 16	0.12 U 0.12 0.93	0.22 U 0.22 1.7	0.51 U 0.51 3.8	2.7 U 2.7 20
Aroclor 1221	NS	NS	NS	NS	-	2.1 U 2.1 16	0.12 U 0.12 0.93	0.22 U 0.22 1.7	0.51 U 0.51 3.8	2.7 U 2.7 20
Aroclor 1232	NS	NS	NS	NS	-	2.1 U 2.1 16	0.12 U 0.12 0.93	0.22 U 0.22 1.7	0.51 U 0.51 3.8	2.7 U 2.7 20
Aroclor 1242	NS	NS	NS	NS	-	2.1 U 2.1 16	0.12 U 0.12 0.93	0.22 U 0.22 1.7	0.51 U 0.51 3.8	2.7 U 2.7 20
Aroclor 1248	NS	NS	NS	NS	-	2.1 U 2.1 16	0.12 U 0.12 0.93	0.22 U 0.22 1.7	0.51 U 0.51 3.8	2.7 U 2.7 20
Aroclor 1254	NS	NS	NS	NS	-	2.2 U 2.2 16	0.13 U 0.13 0.93	0.23 U 0.23 1.7	0.53 U 0.53 3.8	2.8 U 2.8 20
Aroclor 1260	NS	NS	NS	NS	-	210 2.2 16	12 0.13 0.93	25 0.23 1.7	24 0.53 3.8	170 2.8 20
Aroclor 1262	NS	NS	NS	NS	-	2.2 U 2.2 16	0.13 U 0.13 0.93	0.23 U 0.23 1.7	0.53 U 0.53 3.8	2.8 U 2.8 20
Aroclor 1268	NS	NS	NS	NS	-	2.2 U 2.2 16	0.13 U 0.13 0.93	0.23 U 0.23 1.7	0.53 U 0.53 3.8	2.8 U 2.8 20
Total PCBs	0.2	1	0.2	36	-	210 2.2 16	12 0.13 0.93	25 0.23 1.7	24 0.53 3.8	170 2.8 20

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1810 VS-105 (4-4.5) 460-200582-22 AOC-1 1/13/2020 mg/kg	1815 DUP-2 (VS-105 (4-4.5)) 460-200582-27 AOC-1 1/13/2020 mg/kg	1811 VS-105 (5-5.5) 460-200582-23 AOC-1 1/13/2020 mg/kg	1812 VS-105 (6-6.5) 460-200582-24 AOC-1 1/13/2020 mg/kg	1783 VS-106 (2-2.5) 460-198948-10 AOC-1 12/16/2019 mg/kg
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	12 U 12 87	13 U 13 95	2.3 U 2.3 17	0.011 U 0.011 0.081	5.7 U 5.7 43
Aroclor 1221	NS	NS	NS	NS	-	12 U 12 87	13 U 13 95	2.3 U 2.3 17	0.011 U 0.011 0.081	5.7 U 5.7 43
Aroclor 1232	NS	NS	NS	NS	-	12 U 12 87	13 U 13 95	2.3 U 2.3 17	0.011 U 0.011 0.081	5.7 U 5.7 43
Aroclor 1242	NS	NS	NS	NS	-	12 U 12 87	13 U 13 95	2.3 U 2.3 17	0.011 U 0.011 0.081	5.7 U 5.7 43
Aroclor 1248	NS	NS	NS	NS	-	12 U 12 87	13 U 13 95	2.3 U 2.3 17	0.011 U 0.011 0.081	5.7 U 5.7 43
Aroclor 1254	NS	NS	NS	NS	-	12 U 12 87	13 U 13 95	2.3 U 2.3 17	0.011 U 0.011 0.081	5.9 U 5.9 43
Aroclor 1260	NS	NS	NS	NS	-	1700 12 87	1800 13 95	190 2.3 17	0.28 0.011 0.081	640 5.9 43
Aroclor 1262	NS	NS	NS	NS	-	12 U 12 87	13 U 13 95	2.3 U 2.3 17	0.011 U 0.011 0.081	5.9 U 5.9 43
Aroclor 1268	NS	NS	NS	NS	-	12 U 12 87	13 U 13 95	2.3 U 2.3 17	0.011 U 0.011 0.081	5.9 U 5.9 43
Total PCBs	0.2	1	0.2	36	-	1700 12 87	1800 13 95	190 2.3 17	0.28 0.011 0.081	640 5.9 43

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1784 VS-106 (3-3.5) 460-198948-11 AOC-1 12/16/2019 mg/kg	1816 VS-106 (4-4.5) 460-200582-28 AOC-1 1/13/2020 mg/kg	1778 VS-107 (2-2.5) 460-198948-5 AOC-1 12/16/2019 mg/kg	1779 VS-107 (3-3.5) 460-198948-6 AOC-1 12/16/2019 mg/kg	1821 VS-107 (4-4.5) 460-200582-33 AOC-1 1/13/2020 mg/kg
SOIL BY 8082A										
Aroclor 1016	NS	NS	NS	NS	-	0.57 U 0.57 4.3 0.057 U 0.057 0.43	1.1 U 1.1 8.4 1.1 U 1.1 8.4	3.0 U 3.0 23 3.0 U 3.0 23	2.3 U 2.3 17 2.3 U 2.3 17	
Aroclor 1221	NS	NS	NS	NS	-	0.57 U 0.57 4.3 0.057 U 0.057 0.43	1.1 U 1.1 8.4 1.1 U 1.1 8.4	3.0 U 3.0 23 3.0 U 3.0 23	2.3 U 2.3 17 2.3 U 2.3 17	
Aroclor 1232	NS	NS	NS	NS	-	0.57 U 0.57 4.3 0.057 U 0.057 0.43	1.1 U 1.1 8.4 1.1 U 1.1 8.4	3.0 U 3.0 23 3.0 U 3.0 23	2.3 U 2.3 17 2.3 U 2.3 17	
Aroclor 1242	NS	NS	NS	NS	-	0.57 U 0.57 4.3 0.057 U 0.057 0.43	1.1 U 1.1 8.4 1.1 U 1.1 8.4	3.0 U 3.0 23 3.0 U 3.0 23	2.3 U 2.3 17 2.3 U 2.3 17	
Aroclor 1248	NS	NS	NS	NS	-	0.57 U 0.57 4.3 0.057 U 0.057 0.43	1.1 U 1.1 8.4 1.1 U 1.1 8.4	3.0 U 3.0 23 3.0 U 3.0 23	2.3 U 2.3 17 2.3 U 2.3 17	
Aroclor 1254	NS	NS	NS	NS	-	0.59 U 0.59 4.3 0.059 U 0.059 0.43	1.2 U 1.2 8.4 1.2 U 1.2 8.4	3.1 U 3.1 23 3.1 U 3.1 23	2.4 U 2.4 17 2.4 U 2.4 17	
Aroclor 1260	NS	NS	NS	NS	-	63 0.59 4.3 5.9 0.059 0.43	89 1.2 8.4 89 1.2 8.4	310 3.1 23 310 3.1 23	180 2.4 17 180 2.4 17	
Aroclor 1262	NS	NS	NS	NS	-	0.59 U 0.59 4.3 0.059 U 0.059 0.43	1.2 U 1.2 8.4 1.2 U 1.2 8.4	3.1 U 3.1 23 3.1 U 3.1 23	2.4 U 2.4 17 2.4 U 2.4 17	
Aroclor 1268	NS	NS	NS	NS	-	0.59 U 0.59 4.3 0.059 U 0.059 0.43	1.2 U 1.2 8.4 1.2 U 1.2 8.4	3.1 U 3.1 23 3.1 U 3.1 23	2.4 U 2.4 17 2.4 U 2.4 17	
Total PCBs	0.2	1	0.2	36	-	63 0.59 4.3 5.9 0.059 0.43	89 1.2 8.4 89 1.2 8.4	310 3.1 23 310 3.1 23	180 2.4 17 180 2.4 17	

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 1 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 1 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1822 VS-107 (5-5.5) 460-200582-34 AOC-1 1/13/2020 mg/kg	1823 VS-107 (6-6.5) 460-200582-35 AOC-1 1/13/2020 mg/kg
						Result Q MDL RL	Result Q MDL RL
SOIL BY 8082A							
Aroclor 1016	NS	NS	NS	NS	-	0.056 U 0.056 0.42	0.012 U 0.012 0.094
Aroclor 1221	NS	NS	NS	NS	-	0.056 U 0.056 0.42	0.012 U 0.012 0.094
Aroclor 1232	NS	NS	NS	NS	-	0.056 U 0.056 0.42	0.012 U 0.012 0.094
Aroclor 1242	NS	NS	NS	NS	-	0.056 U 0.056 0.42	0.012 U 0.012 0.094
Aroclor 1248	NS	NS	NS	NS	-	0.056 U 0.056 0.42	0.012 U 0.012 0.094
Aroclor 1254	NS	NS	NS	NS	-	0.058 U 0.058 0.42	0.013 U 0.013 0.094
Aroclor 1260	NS	NS	NS	NS	-	5.6 0.058 0.42	0.095 0.013 0.094
Aroclor 1262	NS	NS	NS	NS	-	0.058 U 0.058 0.42	0.013 U 0.013 0.094
Aroclor 1268	NS	NS	NS	NS	-	0.058 U 0.058 0.42	0.013 U 0.013 0.094
Total PCBs	0.2	1	0.2	36	-	5.6 0.058 0.42	0.095 0.013 0.094

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

MS - Matrix spike

MSD - Matrix spike duplicate

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	B-203-2(2.0-2.5) E17161-11 AOC-2 12/19/1996 mg/kg	B-203-2DUP(2.0-2.5) E17161-12 AOC-2 12/19/1996 mg/kg	B-203-6(6.0-6.5) E178161-10 AOC-2 12/19/1996 mg/kg				
						Result	Q	MDL	RL	Result	Q	MDL
SOIL BY 8082A												
Aroclor 1016	NS	NS	NS	NS	-	NR		NR		NR		NR
Aroclor 1221	NS	NS	NS	NS	-	NR		NR		NR		NR
Aroclor 1232	NS	NS	NS	NS	-	NR		NR		NR		NR
Aroclor 1242	NS	NS	NS	NS	-	NR		NR		NR		NR
Aroclor 1248	NS	NS	NS	NS	-	NR		NR		NR		NR
Aroclor 1254	NS	NS	NS	NS	-	NR		NR		NR		NR
Aroclor 1260	NS	NS	NS	NS	-	NR		NR		NR		NR
Aroclor 1262	NS	NS	NS	NS	-	NR		NR		NR		NR
Aroclor 1268	NS	NS	NS	NS	-	NR		NR		NR		NR
Total PCBs	0.2	1	0.2	12	-	0.629	2.2	2.2	3.97	0.115	1.2	1.2

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NR - Not reported

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	B-203-14(14.0-14.5) E17161-7 AOC-2 12/19/1996 mg/kg	B-204-4 E17161-13 AOC-2 12/19/1996 mg/kg	B-204-16 E17161-8 AOC-2 12/19/1996 mg/kg	1572 BT-201(3.5-4.0) 460-179612-13 AOC-2 4/11/2019 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	NR	NR	NR	0.051 U 0.051 0.39
Aroclor 1221	NS	NS	NS	NS	-	NR	NR	NR	0.051 U 0.051 0.39
Aroclor 1232	NS	NS	NS	NS	-	NR	NR	NR	0.051 U 0.051 0.39
Aroclor 1242	NS	NS	NS	NS	-	NR	NR	NR	0.051 U 0.051 0.39
Aroclor 1248	NS	NS	NS	NS	-	NR	NR	NR	0.051 U 0.051 0.39
Aroclor 1254	NS	NS	NS	NS	-	NR	NR	NR	0.053 U 0.053 0.39
Aroclor 1260	NS	NS	NS	NS	-	NR	NR	NR	4.3 0.053 0.39
Aroclor 1262	NS	NS	NS	NS	-	NR	NR	NR	0.053 U 0.053 0.39
Aroclor 1268	NS	NS	NS	NS	-	NR	NR	NR	0.053 U 0.053 0.39
Total PCBs	0.2	1	0.2	12	-	0.26	0.42	6.37	0.683
									4.3

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NR - Not reported

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard	NJDEP Non-Residential Direct Contact Soil Remediation Standard	NJDEP Impact to Ground Water Soil Screening Level	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level	Site-Wide Historic Fill Levels	1568 BT-202(3.5-4.0)	1482 BT-203 (3.5-4.0)	1562 BT-204(3.5-4.0)	1564 BT-205(3.5-4.0)
						mg/kg	mg/kg	mg/kg	mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	0.011 U 0.011 0.086	0.11 U 0.11 0.84	0.053 U 0.053 0.40	5.6 U 5.6 43
Aroclor 1221	NS	NS	NS	NS	-	0.011 U 0.011 0.086	0.11 U 0.11 0.84	0.053 U 0.053 0.40	5.6 U 5.6 43
Aroclor 1232	NS	NS	NS	NS	-	0.011 U 0.011 0.086	0.11 U 0.11 0.84	0.053 U 0.053 0.40	5.6 U 5.6 43
Aroclor 1242	NS	NS	NS	NS	-	0.011 U 0.011 0.086	0.11 U 0.11 0.84	0.053 U 0.053 0.40	5.6 U 5.6 43
Aroclor 1248	NS	NS	NS	NS	-	0.011 U 0.011 0.086	0.11 U 0.11 0.84	0.053 U 0.053 0.40	5.6 U 5.6 43
Aroclor 1254	NS	NS	NS	NS	-	0.012 U 0.012 0.086	0.12 U 0.12 0.84	0.055 U 0.055 0.40	5.8 U 5.8 43
Aroclor 1260	NS	NS	NS	NS	-	0.96 0.012 0.086	8.3 0.12 0.84	4.5 0.055 0.40	770 5.8 43
Aroclor 1262	NS	NS	NS	NS	-	0.012 U 0.012 0.086	0.12 U 0.12 0.84	0.055 U 0.055 0.40	5.8 U 5.8 43
Aroclor 1268	NS	NS	NS	NS	-	0.012 U 0.012 0.086	0.12 U 0.12 0.84	0.055 U 0.055 0.40	5.8 U 5.8 43
Total PCBs	0.2	1	0.2	12	-	0.96	8.3	4.5	770

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NR - Not reported

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1565 BT-205(6.0-6.5) 460-179612-6 AOC-2 4/11/2019 mg/kg	1566 BT-206(3.5-4.0) 460-179612-7 AOC-2 4/11/2019 mg/kg	1570 BT-207(3.5-4.0) 460-179612-11 AOC-2 4/11/2019 mg/kg	1574 BT-208(3.5-4.0) 460-179612-15 AOC-2 4/11/2019 mg/kg													
						Result	Q	MDL	RL	Result	Q											
SOIL BY 8082A																						
Aroclor 1016	NS	NS	NS	NS	-	0.61	U	0.61	4.6	0.12	U	0.12	0.90	0.011	U	0.011	0.086	0.011	U	0.011	0.086	
Aroclor 1221	NS	NS	NS	NS	-	0.61	U	0.61	4.6	0.12	U	0.12	0.90	0.011	U	0.011	0.086	0.011	U	0.011	0.086	
Aroclor 1232	NS	NS	NS	NS	-	0.61	U	0.61	4.6	0.12	U	0.12	0.90	0.011	U	0.011	0.086	0.011	U	0.011	0.086	
Aroclor 1242	NS	NS	NS	NS	-	0.61	U	0.61	4.6	0.12	U	0.12	0.90	0.011	U	0.011	0.086	0.011	U	0.011	0.086	
Aroclor 1248	NS	NS	NS	NS	-	0.61	U	0.61	4.6	0.12	U	0.12	0.90	0.011	U	0.011	0.086	0.011	U	0.011	0.086	
Aroclor 1254	NS	NS	NS	NS	-	0.63	U	0.63	4.6	0.12	U	0.12	0.90	0.012	U	0.012	0.086	0.012	U	0.012	0.086	
Aroclor 1260	NS	NS	NS	NS	-	61		0.63	4.6	6.8		0.12		0.089		0.012		0.086		0.012		0.086
Aroclor 1262	NS	NS	NS	NS	-	0.63	U	0.63	4.6	0.12	U	0.12	0.90	0.012	U	0.012	0.086	0.012	U	0.012	0.086	
Aroclor 1268	NS	NS	NS	NS	-	0.63	U	0.63	4.6	0.12	U	0.12	0.90	0.012	U	0.012	0.086	0.012	U	0.012	0.086	
Total PCBs	0.2	1	0.2	12	-	61				6.8				0.089				0.012				

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NR - Not reported

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1577 BT-209(6.0-6.5) 460-179612-17 AOC-2 4/11/2019 mg/kg	1582 BT-209(8.5-9.0) 460-179611-5 AOC-2 4/12/2019 mg/kg	1560 PE-201(1.5-2.0) 460-179612-1 AOC-2 4/11/2019 mg/kg	1424 PE-202(1.5-2.0) 460-169367-12 AOC-2 11/13/2018 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	0.022 U 0.022 0.17	1.3 U 1.3 10	0.27 U 0.27 2.000	NA
Aroclor 1221	NS	NS	NS	NS	-	0.022 U 0.022 0.17	1.3 U 1.3 10	0.27 U 0.27 2.000	0.011 U 0.011 0.084
Aroclor 1232	NS	NS	NS	NS	-	0.022 U 0.022 0.17	1.3 U 1.3 10	0.27 U 0.27 2.000	0.011 U 0.011 0.084
Aroclor 1242	NS	NS	NS	NS	-	0.022 U 0.022 0.17	1.3 U 1.3 10	0.27 U 0.27 2.000	0.011 U 0.011 0.084
Aroclor 1248	NS	NS	NS	NS	-	0.022 U 0.022 0.17	1.3 U 1.3 10	0.27 U 0.27 2.000	0.011 U 0.011 0.084
Aroclor 1254	NS	NS	NS	NS	-	0.023 U 0.023 0.17	1.4 U 1.4 10	0.28 U 0.28 2.000	0.011 U 0.011 0.084
Aroclor 1260	NS	NS	NS	NS	-	2.9 0.023 0.17	100 1.4 10	17 0.28 2.000	1.4 0.011 0.084
Aroclor 1262	NS	NS	NS	NS	-	0.023 U 0.023 0.17	1.4 U 1.4 10	0.28 U 0.28 2.000	0.011 U 0.011 0.084
Aroclor 1268	NS	NS	NS	NS	-	0.023 U 0.023 0.17	1.4 U 1.4 10	0.28 U 0.28 2.000	0.011 U 0.011 0.084
Total PCBs	0.2	1	0.2	12	-	2.9	100	17	1.4

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NR - Not reported

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard	NJDEP Non-Residential Direct Contact Soil Remediation Standard	NJDEP Impact to Ground Water Soil Screening Level	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level	Site-Wide Historic Fill Levels	1423 DUP-5 (PE-202(1.5-2.0))				1479 PE-204 (1.5-2.0)				1621 PE-206(1.5-2.0)				1672 PE-208(2.0-2.5)			
						460-169367-11 AOC-2 11/13/2018 mg/kg				460-175341-1 AOC-2 2/13/2019 mg/kg				460-181767-1 AOC-2 5/9/2019 mg/kg				460-181767-52 AOC-2 5/9/2019 mg/kg			
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL	
SOIL BY 8082A																					
Aroclor 1016	NS	NS	NS	NS	-	NA			0.011	U	0.011	0.081	0.049	U	0.049	0.37	0.011	U	0.011	0.083	
Aroclor 1221	NS	NS	NS	NS	-	0.012	U	0.012	0.087	0.011	U	0.011	0.081	0.049	U	0.049	0.37	0.011	U	0.011	0.083
Aroclor 1232	NS	NS	NS	NS	-	0.012	U	0.012	0.087	0.011	U	0.011	0.081	0.049	U	0.049	0.37	0.011	U	0.011	0.083
Aroclor 1242	NS	NS	NS	NS	-	0.012	U	0.012	0.087	0.011	U	0.011	0.081	0.049	U	0.049	0.37	0.011	U	0.011	0.083
Aroclor 1248	NS	NS	NS	NS	-	0.012	U	0.012	0.087	0.011	U	0.011	0.081	0.049	U	0.049	0.37	0.011	U	0.011	0.083
Aroclor 1254	NS	NS	NS	NS	-	0.012	U	0.012	0.087	0.011	U	0.011	0.081	0.051	U	0.051	0.37	0.011	U	0.011	0.083
Aroclor 1260	NS	NS	NS	NS	-	1.7			0.81		0.011	0.081	2.9		0.051	0.37	0.50		0.011	0.083	
Aroclor 1262	NS	NS	NS	NS	-	0.012	U	0.012	0.087	0.011	U	0.011	0.081	0.051	U	0.051	0.37	0.011	U	0.011	0.083
Aroclor 1268	NS	NS	NS	NS	-	0.012	U	0.012	0.087	0.011	U	0.011	0.081	0.051	U	0.051	0.37	0.011	U	0.011	0.083
Total PCBs	0.2	1	0.2	12	-	1.7			0.81				2.9				0.5				

Note:

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Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	300 SB-202A(0.0-0.5)				300 SB-202B(1.0-1.5)				164 SB-203A(0.0-0.5)				169 SB-205A(4.0-4.5)			
						61820-25 AOC-2 8/22/2013 mg/kg	61820-26 AOC-2 8/22/2013 mg/kg	61222-9 AOC-2 8/13/2013 mg/kg	61222-14 AOC-2 8/13/2013 mg/kg												
SOIL BY 8082A																					
Aroclor 1016	NS	NS	NS	NS	-	ND	U	0.027	0.12	ND	U	0.028	0.13	ND	U	0.22	0.77	NA	U	0.022	0.097
Aroclor 1221	NS	NS	NS	NS	-	ND	U	0.027	0.12	ND	U	0.028	0.13	ND	U	0.17	0.77	NA	U	0.022	0.097
Aroclor 1232	NS	NS	NS	NS	-	ND	U	0.027	0.12	ND	U	0.028	0.13	ND	U	0.17	0.77	NA	U	0.022	0.097
Aroclor 1242	NS	NS	NS	NS	-	ND	U	0.027	0.12	ND	U	0.028	0.13	ND	U	0.17	0.77	NA	U	0.022	0.097
Aroclor 1248	NS	NS	NS	NS	-	ND	U	0.027	0.12	ND	U	0.028	0.13	ND	U	0.17	0.77	NA	U	0.022	0.097
Aroclor 1254	NS	NS	NS	NS	-	ND	U	0.034	0.12	ND	U	0.036	0.13	ND	U	0.22	0.77	NA	U	0.027	0.097
Aroclor 1260	NS	NS	NS	NS	-	1	0.034	0.12	0.89	0.036	0.13	14	0.22	0.77	0.1	0.027	0.097	NA	U	0.027	0.097
Aroclor 1262	NS	NS	NS	NS	-	ND	U	0.034	0.12	ND	U	0.036	0.13	ND	U	0.22	0.77	NA	U	0.027	0.097
Aroclor 1268	NS	NS	NS	NS	-	ND	U	0.034	0.12	ND	U	0.036	0.13	ND	U	0.22	0.77	NA	U	0.027	0.097
Total PCBs	0.2	1	0.2	12	-	1				0.89				14				0.1			

Note:

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Qualifiers:

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J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard	NJDEP Non-Residential Direct Contact Soil Remediation Standard	NJDEP Impact to Ground Water Soil Screening Level	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level	Site-Wide Historic Fill Levels	167 SB-206A(14.0-14.5)			168 SB-206B(19.5-20.0)			327 SB-207A(0-0.5)			328 SB-207B(7.5-8)								
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL
SOIL BY 8082A																							
Aroclor 1016	NS	NS	NS	NS	-	0.020	U	0.020	0.019	U	0.019	ND	U	0.022	0.097	ND	U	0.021	0.092	ND	U	0.021	0.092
Aroclor 1221	NS	NS	NS	NS	-	0.020	U	0.020	0.019	U	0.019	ND	U	0.022	0.097	ND	U	0.021	0.092	ND	U	0.021	0.092
Aroclor 1232	NS	NS	NS	NS	-	0.020	U	0.020	0.019	U	0.019	ND	U	0.022	0.097	ND	U	0.021	0.092	ND	U	0.021	0.092
Aroclor 1242	NS	NS	NS	NS	-	0.020	U	0.020	0.019	U	0.019	ND	U	0.022	0.097	ND	U	0.021	0.092	ND	U	0.021	0.092
Aroclor 1248	NS	NS	NS	NS	-	0.020	U	0.020	0.019	U	0.019	ND	U	0.022	0.097	ND	U	0.021	0.092	ND	U	0.021	0.092
Aroclor 1254	NS	NS	NS	NS	-	0.026	U	0.026	0.024	U	0.024	ND	U	0.027	0.097	ND	U	0.026	0.092	ND	U	0.026	0.092
Aroclor 1260	NS	NS	NS	NS	-	0.026	U	0.026	0.024	U	0.024	0.16	0.027	0.097	ND	U	0.026	0.092	ND	U	0.026	0.092	
Aroclor 1262	NS	NS	NS	NS	-	0.026	U	0.026	0.024	U	0.024	ND	U	0.027	0.097	ND	U	0.026	0.092	ND	U	0.026	0.092
Aroclor 1268	NS	NS	NS	NS	-	0.026	U	0.026	0.024	U	0.024	ND	U	0.027	0.097	ND	U	0.026	0.092	ND	U	0.026	0.092
Total PCBs	0.2	1	0.2	12	-	0			0			0.16	0.027	0.097	ND	U	0.026	0.092	ND	U	0.026	0.092	

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

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NJDEP - New Jersey Department of Environmental Protection

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Qualifiers:

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Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard	NJDEP Non-Residential Direct Contact Soil Remediation Standard	NJDEP Impact to Ground Water Soil Screening Level	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level	Site-Wide Historic Fill Levels	160 SB-208A(0-0.5)				161 SB-208B(7.5-8)				162 SB-208C(14-14.5)				163 SB-208D(19.5-20)							
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL
SOIL BY 8082A																									
Aroclor 1016	NS	NS	NS	NS	-	ND	U	0.11	0.48	ND	U	0.021	0.092	ND	U	0.021	0.095	ND	U	0.024	0.11				
Aroclor 1221	NS	NS	NS	NS	-	ND	U	0.11	0.48	ND	U	0.021	0.092	ND	U	0.021	0.095	ND	U	0.024	0.11				
Aroclor 1232	NS	NS	NS	NS	-	ND	U	0.11	0.48	ND	U	0.021	0.092	ND	U	0.021	0.095	ND	U	0.024	0.11				
Aroclor 1242	NS	NS	NS	NS	-	ND	U	0.11	0.48	ND	U	0.021	0.092	ND	U	0.021	0.095	ND	U	0.024	0.11				
Aroclor 1248	NS	NS	NS	NS	-	ND	U	0.11	0.48	ND	U	0.021	0.092	ND	U	0.021	0.095	ND	U	0.024	0.11				
Aroclor 1254	NS	NS	NS	NS	-	ND	U	0.14	0.48	ND	U	0.026	0.092	ND	U	0.027	0.095	ND	U	0.03	0.11				
Aroclor 1260	NS	NS	NS	NS	-	3.9	0.14	0.48	ND	U	0.026	0.092	ND	U	0.027	0.095	0.063	J	0.03	0.11					
Aroclor 1262	NS	NS	NS	NS	-	ND	U	0.14	0.48	ND	U	0.026	0.092	ND	U	0.027	0.095	ND	U	0.03	0.11				
Aroclor 1268	NS	NS	NS	NS	-	ND	U	0.14	0.48	ND	U	0.026	0.092	ND	U	0.027	0.095	ND	U	0.03	0.11				
Total PCBs	0.2	1	0.2	12	-	3.9	0.14	0.48	ND	U	0.026	0.092	ND	U	0.027	0.095	0.063	J	0.03	0.11					

Note:

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Qualifiers:

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Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	297 SB-209A(0.0-0.5)	297 SB-209B(1.5-2.0)	297 SB-209C(7.5-8.0)	540 SB-214(10-10.5)
						61820-22 AOC-2 8/22/2013 mg/kg	61820-23 AOC-2 8/22/2013 mg/kg	61820-24 AOC-2 8/22/2013 mg/kg	76324-1 AOC-3 5/16/2014 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	ND U 0.49 2.2	ND U 0.18 0.79	ND U 0.019 0.084	ND U 0.022 0.096
Aroclor 1221	NS	NS	NS	NS	-	ND U 0.49 2.2	ND U 0.18 0.79	ND U 0.019 0.084	ND U 0.022 0.096
Aroclor 1232	NS	NS	NS	NS	-	ND U 0.49 2.2	ND U 0.18 0.79	ND U 0.019 0.084	ND U 0.022 0.096
Aroclor 1242	NS	NS	NS	NS	-	ND U 0.49 2.2	ND U 0.18 0.79	ND U 0.019 0.084	ND U 0.022 0.096
Aroclor 1248	NS	NS	NS	NS	-	ND U 0.49 2.2	ND U 0.18 0.79	ND U 0.019 0.084	ND U 0.022 0.096
Aroclor 1254	NS	NS	NS	NS	-	ND U 0.62 2.2	ND U 0.22 0.79	ND U 0.024 0.084	ND U 0.027 0.096
Aroclor 1260	NS	NS	NS	NS	-	30 0.62 2.2	5.8 0.22 0.79	1.2 0.024 0.084	0.9 0.027 0.096
Aroclor 1262	NS	NS	NS	NS	-	ND U 0.62 2.2	ND U 0.22 0.79	ND U 0.024 0.084	ND U 0.027 0.096
Aroclor 1268	NS	NS	NS	NS	-	ND U 0.62 2.2	ND U 0.22 0.79	ND U 0.024 0.084	ND U 0.027 0.096
Total PCBs	0.2	1	0.2	12	-	30	5.8	1.2	0.9

Note:

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Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1426 SB-219(2.0-2.5) 460-169367-14 AOC-2 11/13/2018 mg/kg	1428 SB-220(2.0-2.5) 460-169367-16 AOC-2 11/13/2018 mg/kg	1427 SB-221(2.0-2.5) 460-169367-15 AOC-2 11/13/2018 mg/kg	1476 SB-222(2.0-2.5) 460-169367-18 AOC-2 2/11/2019 mg/kg		
						Result	Q	MDL	RL	Result	Q
SOIL BY 8082A											
Aroclor 1016	NS	NS	NS	NS	-	NA	NA	NA	NA	0.11	U 0.11 0.83
Aroclor 1221	NS	NS	NS	NS	-	0.0089 U 0.0089 0.067	0.01 U 0.01 0.079	0.13 U 0.13 0.95	0.11 U 0.11 0.83		
Aroclor 1232	NS	NS	NS	NS	-	0.0089 U 0.0089 0.067	0.01 U 0.01 0.079	0.13 U 0.13 0.95	0.11 U 0.11 0.83		
Aroclor 1242	NS	NS	NS	NS	-	0.0089 U 0.0089 0.067	0.01 U 0.01 0.079	0.13 U 0.13 0.95	0.11 U 0.11 0.83		
Aroclor 1248	NS	NS	NS	NS	-	0.0089 U 0.0089 0.067	0.01 U 0.01 0.079	0.13 U 0.13 0.95	0.11 U 0.11 0.83		
Aroclor 1254	NS	NS	NS	NS	-	0.0092 U 0.0092 0.067	0.011 U 0.011 0.079	0.13 U 0.13 0.95	0.11 U 0.11 0.83		
Aroclor 1260	NS	NS	NS	NS	-	0.31 0.0092 0.067	0.11 0.011 0.079	13 D 0.13 0.95	14 0.11 0.83		
Aroclor 1262	NS	NS	NS	NS	-	0.0092 U 0.0092 0.067	0.011 U 0.011 0.079	0.13 U 0.13 0.95	0.11 U 0.11 0.83		
Aroclor 1268	NS	NS	NS	NS	-	0.0092 U 0.0092 0.067	0.011 U 0.011 0.079	0.13 U 0.13 0.95	0.11 U 0.11 0.83		
Total PCBs	0.2	1	0.2	12	-	0.31	0.11		13		14

Note:

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Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1425 SB-225(0-0.5) 460-169367-13 AOC-2 11/13/2018 mg/kg	1481 SB-226 (0.0-0.5) 460-175341-3 AOC-2 2/13/2019 mg/kg	1478 SB-227(0.0-0.5) 460-175187-20 AOC-2 2/11/2019 mg/kg	1584 SB-228(2.0-2.5) 460-179611-7 AOC-2 4/12/2019 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	NA	0.011 U 0.011 0.086	0.01 U 0.01 0.077	0.011 U 0.011 0.085
Aroclor 1221	NS	NS	NS	NS	-	0.021 U 0.021 0.16	0.011 U 0.011 0.086	0.01 U 0.01 0.077	0.011 U 0.011 0.085
Aroclor 1232	NS	NS	NS	NS	-	0.021 U 0.021 0.16	0.011 U 0.011 0.086	0.01 U 0.01 0.077	0.011 U 0.011 0.085
Aroclor 1242	NS	NS	NS	NS	-	0.021 U 0.021 0.16	0.011 U 0.011 0.086	0.01 U 0.01 0.077	0.011 U 0.011 0.085
Aroclor 1248	NS	NS	NS	NS	-	0.021 U 0.021 0.16	0.13 0.011 0.086	0.01 U 0.01 0.077	0.011 U 0.011 0.085
Aroclor 1254	NS	NS	NS	NS	-	0.022 U 0.022 0.16	0.012 U 0.012 0.086	0.011 U 0.011 0.077	0.012 U 0.012 0.085
Aroclor 1260	NS	NS	NS	NS	-	2.2 D 0.022 0.16	0.23 0.012 0.086	0.62 0.011 0.077	0.07 J 0.012 0.085
Aroclor 1262	NS	NS	NS	NS	-	0.022 U 0.022 0.16	0.012 U 0.012 0.086	0.011 U 0.011 0.077	0.012 U 0.012 0.085
Aroclor 1268	NS	NS	NS	NS	-	0.022 U 0.022 0.16	0.012 U 0.012 0.086	0.011 U 0.011 0.077	0.012 U 0.012 0.085
Total PCBs	0.2	1	0.2	12	-	2.2	0.36	0.62	0.07

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NR - Not reported

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard	NJDEP Non-Residential Direct Contact Soil Remediation Standard	NJDEP Impact to Ground Water Soil Screening Level	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level	Site-Wide Historic Fill Levels	1586 SB-229(2.0-2.5)	1585 SB-230(2.0-2.5)	1587 SB-231(2.0-2.5)	1624 SB-233(2.0-2.5)
						mg/kg	mg/kg	mg/kg	mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.1 U 0.1 0.77	0.011 U 0.011 0.081	NA
Aroclor 1221	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.1 U 0.1 0.77	0.011 U 0.011 0.081	0.011 U 0.011 0.081
Aroclor 1232	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.1 U 0.1 0.77	0.011 U 0.011 0.081	0.011 U 0.011 0.081
Aroclor 1242	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.1 U 0.1 0.77	0.011 U 0.011 0.081	0.011 U 0.011 0.081
Aroclor 1248	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.1 U 0.1 0.77	0.011 U 0.011 0.081	0.011 U 0.011 0.081
Aroclor 1254	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.11 U 0.11 0.77	0.011 U 0.011 0.081	0.011 U 0.011 0.081
Aroclor 1260	NS	NS	NS	NS	-	1.3 0.011 0.082	9.4 0.11 0.77	0.38 0.011 0.081	0.067 J 0.011 0.081
Aroclor 1262	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.11 U 0.11 0.77	0.011 U 0.011 0.081	0.011 U 0.011 0.081
Aroclor 1268	NS	NS	NS	NS	-	0.011 U 0.011 0.082	0.11 U 0.11 0.77	0.011 U 0.011 0.081	0.011 U 0.011 0.081
Total PCBs	0.2	1	0.2	12	-	1.3	9.4	0.38	0.067

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NR - Not reported

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	SS-207 B(1.5-2.0) E16895-14 AOC-2 12/10/1996 mg/kg	SS-208 A(0.0-0.5) E16895-15 AOC-2 12/10/1996 mg/kg	SS-209 A(0.0-0.5) E16895-17 AOC-2 12/10/1996 mg/kg	SS-209 B(1.5-2.0) E16895-18 AOC-2 12/10/1996 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1221	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1232	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1242	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1248	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1254	NS	NS	NS	NS	-	ND U	ND U	ND U	ND U
Aroclor 1260	NS	NS	NS	NS	-	0.493 0.77 0.77	1.18	1.44	1.32
Aroclor 1262	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1268	NS	NS	NS	NS	-	NR	NR	NR	NR
Total PCBs	0.2	1	0.2	12	-	0.493 0.77 0.77	1.18	1.44	1.32

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NR - Not reported

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	SS-210 A(0.0-0.5)				SS-220 B(1.5-2.0)				SS-222 A(0.0-0.5)				SS-222 A DUP(0.0-0.5)								
						E16895-19 AOC-2 12/10/1996 mg/kg	Result	Q	MDL	RL	E16895-40R AOC-2 12/10/1996 mg/kg	Result	Q	MDL	RL	E16895-43 AOC-2 12/10/1996 mg/kg	Result	Q	MDL	RL	E16895-57 AOC-2 12/11/1996 mg/kg	Result	Q	MDL	RL	
SOIL BY 8082A																										
Aroclor 1016	NS	NS	NS	NS	-	NR					NR					NR					NR				NR	
Aroclor 1221	NS	NS	NS	NS	-	NR					NR					NR					NR				NR	
Aroclor 1232	NS	NS	NS	NS	-	NR					NR					NR					NR				NR	
Aroclor 1242	NS	NS	NS	NS	-	NR					NR					NR					NR				NR	
Aroclor 1248	NS	NS	NS	NS	-	NR					NR					NR					NR				NR	
Aroclor 1254	NS	NS	NS	NS	-	ND U					ND U					ND U					ND U				ND U	
Aroclor 1260	NS	NS	NS	NS	-	0.165	0.36	0.36			0.182	0.4	0.4			0.11	0.9	0.9			0.162	0.36	0.36			
Aroclor 1262	NS	NS	NS	NS	-	NR					NR					NR					NR				NR	
Aroclor 1268	NS	NS	NS	NS	-	NR					NR					NR					NR				NR	
Total PCBs	0.2	1	0.2	12	-	0.165	0.36	0.36			0.182	0.4	0.4			0.11	0.9	0.9			0.162	0.36	0.36			

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NR - Not reported

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	SS-252 A(0.0-0.5) E16936-49 AOC-2 12/11/1996 mg/kg	SS-252 B(1.5-2.0) E16936-50 AOC-2 12/11/1996 mg/kg	SS-255 A(0.0-0.5) E17251-5 AOC-2 12/23/1996 mg/kg	SS-255 B(1.5-2.0) E17251-6 AOC-2 12/23/1996 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1221	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1232	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1242	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1248	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1254	NS	NS	NS	NS	-	ND U	ND U	ND U	ND U
Aroclor 1260	NS	NS	NS	NS	-	550	0.583	550	0.583
Aroclor 1262	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1268	NS	NS	NS	NS	-	NR	NR	NR	NR
Total PCBs	0.2	1	0.2	12	-	550	0.583	1350	16.4

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NR - Not reported

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	SS-256 A(0.0-0.5) E17251-7 AOC-2 12/23/1996 mg/kg	SS-256 B(1.5-2.0) E17251-8 AOC-2 12/23/1996 mg/kg	SS-259 A(0.0-0.5) E17345-3 AOC-2 12/30/1996 mg/kg	SS-259 B(1.5-2.0) E17345-4 AOC-2 12/30/1996 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1221	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1232	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1242	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1248	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1254	NS	NS	NS	NS	-	ND U	ND U	ND U	ND U
Aroclor 1260	NS	NS	NS	NS	-	189	9.02	3.23	0.228
Aroclor 1262	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1268	NS	NS	NS	NS	-	NR	NR	NR	NR
Total PCBs	0.2	1	0.2	12	-	189	9.02	3.23	0.228

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NR - Not reported

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	SS-260 A(0.0-0.5) E17345-5 AOC-2 12/30/1996 mg/kg	SS-261 A(0.0-0.5) E17729-1 AOC-2 1/15/1997 mg/kg	SS-261 B(1.5-2.0) E17729-2 AOC-2 1/15/1997 mg/kg	SS-261 B(1.5-2.0) E17729-2R AOC-2 1/15/1997 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1221	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1232	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1242	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1248	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1254	NS	NS	NS	NS	-	ND U	ND U	ND U	ND U
Aroclor 1260	NS	NS	NS	NS	-	0.644 2.5 2.50	1.65	73	161
Aroclor 1262	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1268	NS	NS	NS	NS	-	NR	NR	NR	NR
Total PCBs	0.2	1	0.2	12	-	0.644 2.6 2.60	1.65	73	161

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NR - Not reported

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	SS-261 C(3.5-4.0) E20530-4R AOC-2 4/15/1997 mg/kg	SS-261 C(3.5-4.0) E20530-4R AOC-2 4/15/1997 mg/kg	SS-262 A(0.0-0.5) E17729-3 AOC-2 1/15/1997 mg/kg	SS-262 B(1.5-2.0) E17729-4R AOC-2 1/15/1997 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1221	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1232	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1242	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1248	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1254	NS	NS	NS	NS	-	ND U	ND U	ND U	ND U
Aroclor 1260	NS	NS	NS	NS	-	15.6	21.2	0.644	0.762
Aroclor 1262	NS	NS	NS	NS	-	NR	NR	NR	NR
Aroclor 1268	NS	NS	NS	NS	-	NR	NR	NR	NR
Total PCBs	0.2	1	0.2	12	-	15.6	21.2	1.59	0.762

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NR - Not reported

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 5 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 2 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 2 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	SS-265 A(0.0-0.5)			
						E20530-1R AOC-2 4/15/1997 mg/kg	Result	Q	MDL
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	NR			
Aroclor 1221	NS	NS	NS	NS	-	NR			
Aroclor 1232	NS	NS	NS	NS	-	NR			
Aroclor 1242	NS	NS	NS	NS	-	NR			
Aroclor 1248	NS	NS	NS	NS	-	NR			
Aroclor 1254	NS	NS	NS	NS	-	ND U			
Aroclor 1260	NS	NS	NS	NS	-	0.078 0.44 0.44			
Aroclor 1262	NS	NS	NS	NS	-	NR			
Aroclor 1268	NS	NS	NS	NS	-	NR			
Total PCBs	0.2	1	0.2	12	-	0.078 0.44 0.44			

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NR - Not reported

NJDEP - New Jersey Department of Environmental Protection

NS - No standard

Q - Qualifier

RL - Reporting limit

Qualifiers:

D - Sample results are obtained from a dilution

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

Exceedances:

10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard

10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard

10 - Result exceeds AOC 2 Specific Impact to Groundwater Soil Remediation Standard

15 - MDL exceeds standard

TABLE 1 - AOC 8 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard	NJDEP Non-Residential Direct Contact Soil Remediation Standard	NJDEP Impact to Ground Water Soil Screening Level	AOC 8 Specific NJDEP Impact to Ground Water Soil Screening Level	Site-Wide Historic Fill Levels	B-1 (4.0-6.0)			B-1 (6.0-9.0)			B-2 (4.0-6.0)			B-3 (5.0-8.0)							
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL
SOIL BY 8082A																						
Aroclor 1016	NS	NS	NS	NS	-	NR			NR			NR			NR				NR			
Aroclor 1221	NS	NS	NS	NS	-	NR			NR			NR			NR				NR			
Aroclor 1232	NS	NS	NS	NS	-	NR			NR			NR			NR				NR			
Aroclor 1242	NS	NS	NS	NS	-	NR			NR			NR			NR				NR			
Aroclor 1248	NS	NS	NS	NS	-	2.14			ND	U	0.4	0.4			ND	U	0.79	0.79	ND	U	0.4	0.4
Aroclor 1254	NS	NS	NS	NS	-	1.77			0.204	0.41	0.41				ND	U	0.79	0.79	ND	U	0.4	0.4
Aroclor 1260	NS	NS	NS	NS	-	1.48			0.114	1.2	1.2				3.19				0.0569	0.41	0.41	
Aroclor 1262	NS	NS	NS	NS	-	NR			NR			NR			NR				NR			
Aroclor 1268	NS	NS	NS	NS	-	NR			NR			NR			NR				NR			
Total PCBs	0.2	1	0.2	0.2	-	5.39			0.318			3.19							0.0569			

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

Exceedances:

- 10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard
- 10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard
- 10 - Result exceeds AOC 8 Specific Impact to Groundwater Soil Remediation Standard
- 15 - MDL exceeds standard

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

TABLE 1 - AOC 8 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 8 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1440 SB-105A(0.5-1.0) 460-169452-12 AOC-8 11/14/2018 mg/kg	1440 SB-879(0.5-1.0) 460-169452-12 AOC-8 11/14/2018 mg/kg	1439 SB-880(0.5-1.0) 460-169452-11 AOC-8 11/14/2018 mg/kg	1558 SB-888-1(3.0-3.5) 460-179573-11 AOC-8 4/10/2019 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	NA	NA	NA	NA
Aroclor 1221	NS	NS	NS	NS	-	0.01 U 0.01 0.076	0.01 U 0.01 0.076	0.01 U 0.01 0.078	0.011 U 0.011 0.082
Aroclor 1232	NS	NS	NS	NS	-	0.01 U 0.01 0.076	0.01 U 0.01 0.076	0.01 U 0.01 0.078	0.011 U 0.011 0.082
Aroclor 1242	NS	NS	NS	NS	-	0.01 U 0.01 0.076	0.01 U 0.01 0.076	0.01 U 0.01 0.078	0.011 U 0.011 0.082
Aroclor 1248	NS	NS	NS	NS	-	0.01 U 0.01 0.076	0.01 U 0.01 0.076	0.01 U 0.01 0.078	0.011 U 0.011 0.082
Aroclor 1254	NS	NS	NS	NS	-	0.01 U 0.01 0.076	0.01 U 0.01 0.076	0.011 U 0.011 0.078	0.011 U 0.011 0.082
Aroclor 1260	NS	NS	NS	NS	-	0.047 J 0.01 0.076	0.047 J 0.01 0.076	0.52 0.011 0.078	0.79 0.011 0.082
Aroclor 1262	NS	NS	NS	NS	-	0.01 U 0.01 0.076	0.01 U 0.01 0.076	0.011 U 0.011 0.078	0.011 U 0.011 0.082
Aroclor 1268	NS	NS	NS	NS	-	0.01 U 0.01 0.076	0.01 U 0.01 0.076	0.011 U 0.011 0.078	0.011 U 0.011 0.082
Total PCBs	0.2	1	0.2	0.2	-	0.047	0.047	0.52	0.79

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

Exceedances:

- 10** - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard
- 10** - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard
- 10** - Result exceeds AOC 8 Specific Impact to Groundwater Soil Remediation Standard
- 15** - MDL exceeds standard

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

TABLE 1 - AOC 8 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 8 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1477 SB-883(0.5-1.0) 460-175187-19 AOC-8 2/11/2019 mg/kg
SOIL BY 8082A						
Aroclor 1016	NS	NS	NS	NS	-	0.01 U 0.01 0.076
Aroclor 1221	NS	NS	NS	NS	-	0.01 U 0.01 0.076
Aroclor 1232	NS	NS	NS	NS	-	0.01 U 0.01 0.076
Aroclor 1242	NS	NS	NS	NS	-	0.01 U 0.01 0.076
Aroclor 1248	NS	NS	NS	NS	-	0.01 U 0.01 0.076
Aroclor 1254	NS	NS	NS	NS	-	0.01 U 0.01 0.076
Aroclor 1260	NS	NS	NS	NS	-	0.073 J 0.01 0.076
Aroclor 1262	NS	NS	NS	NS	-	0.01 U 0.01 0.076
Aroclor 1268	NS	NS	NS	NS	-	0.01 U 0.01 0.076
Total PCBs	0.2	1	0.2	0.2	-	0.073

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

Exceedances:

- | | |
|-----------|---|
| 10 | - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard |
| 10 | - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard |
| 10 | - Result exceeds AOC 8 Specific Impact to Groundwater Soil Remediation Standard |
| 15 | - MDL exceeds standard |

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

TABLE 1 - AOC 9 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 9 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1431 PE-904(0-0.5) 460-169452-3 AOC-9 11/14/2018 mg/kg	1493 PE-910 (0-0.5) 460-175341-14 AOC-9 2/13/2019 mg/kg	125 SB-915 60997-18 AOC-9 8/9/2013 mg/kg	860 SB-981 (0-0.5) 460-130320-1 AOC-9 3/24/2017 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	NA	0.01 U 0.01 0.075	ND U 0.016 0.073	ND U 0.011 0.081
Aroclor 1221	NS	NS	NS	NS	-	0.012 U 0.012 0.087	0.01 U 0.01 0.075	ND U 0.016 0.073	ND U 0.011 0.081
Aroclor 1232	NS	NS	NS	NS	-	0.012 U 0.012 0.087	0.01 U 0.01 0.075	ND U 0.016 0.073	ND U 0.011 0.081
Aroclor 1242	NS	NS	NS	NS	-	0.012 U 0.012 0.087	0.01 U 0.01 0.075	ND U 0.016 0.073	ND U 0.011 0.081
Aroclor 1248	NS	NS	NS	NS	-	0.012 U 0.012 0.087	0.01 U 0.01 0.075	ND U 0.016 0.073	ND U 0.011 0.081
Aroclor 1254	NS	NS	NS	NS	-	0.012 U 0.012 0.087	0.01 U 0.01 0.075	ND U 0.021 0.073	ND U 0.011 0.081
Aroclor 1260	NS	NS	NS	NS	-	0.43 0.012 0.087	0.12 0.01 0.075	0.76 0.021 0.073	0.84 0.011 0.081
Aroclor 1262	NS	NS	NS	NS	-	0.012 U 0.012 0.087	0.01 U 0.01 0.075	ND U 0.021 0.073	ND U 0.011 0.081
Aroclor 1268	NS	NS	NS	NS	-	0.012 U 0.012 0.087	0.01 U 0.01 0.075	ND U 0.021 0.073	ND U 0.011 0.081
Total PCBs	0.2	1	0.2	0.2	-	0.43	0.12 0.01 0.075	0.76 0.021 0.073	0.84 0.011 0.081

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

Exceedances:

- | | |
|-----------|---|
| 10 | - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard |
| 10 | - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard |
| 10 | - Result exceeds AOC 9 Specific Impact to Groundwater Soil Remediation Standard |
| 15 | - MDL exceeds standard |

TABLE 1 - AOC 9 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 9 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	885 DUP-1 (SB-981) 460-130320-26 AOC-9 3/24/2017 mg/kg	861 SB-982 (0-0.5) 460-130320-2 AOC-9 3/24/2017 mg/kg	862 SB-983 (1-1.5) 460-130320-3 AOC-9 3/24/2017 mg/kg	863 SB-984 (1-1.5) 460-130320-4 AOC-9 3/24/2017 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	ND U 0.011 0.086	ND U 0.019 0.15	ND U 0.011 0.08	ND U 0.01 0.076
Aroclor 1221	NS	NS	NS	NS	-	ND U 0.011 0.086	ND U 0.019 0.15	ND U 0.011 0.08	ND U 0.01 0.076
Aroclor 1232	NS	NS	NS	NS	-	ND U 0.011 0.086	ND U 0.019 0.15	ND U 0.011 0.08	ND U 0.01 0.076
Aroclor 1242	NS	NS	NS	NS	-	ND U 0.011 0.086	ND U 0.019 0.15	ND U 0.011 0.08	ND U 0.01 0.076
Aroclor 1248	NS	NS	NS	NS	-	ND U 0.011 0.086	ND U 0.019 0.15	ND U 0.011 0.08	ND U 0.01 0.076
Aroclor 1254	NS	NS	NS	NS	-	ND U 0.012 0.086	ND U 0.02 0.15	ND U 0.011 0.08	ND U 0.01 0.076
Aroclor 1260	NS	NS	NS	NS	-	0.16 0.012 0.086	2.5 0.02 0.15	0.37 0.011 0.08	1.4 0.01 0.076
Aroclor 1262	NS	NS	NS	NS	-	ND U 0.012 0.086	ND U 0.02 0.15	ND U 0.011 0.08	ND U 0.01 0.076
Aroclor 1268	NS	NS	NS	NS	-	ND U 0.012 0.086	ND U 0.02 0.15	ND U 0.011 0.08	ND U 0.01 0.076
Total PCBs	0.2	1	0.2	0.2	-	0.16 0.012 0.086	2.5 0.02 0.15	0.37 0.011 0.08	1.4 0.01 0.076

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

Exceedances:

- | | |
|-----------|---|
| 10 | - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard |
| 10 | - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard |
| 10 | - Result exceeds AOC 9 Specific Impact to Groundwater Soil Remediation Standard |
| 15 | - MDL exceeds standard |

TABLE 1 - AOC 9 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 9 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	865 SB-986 (0-0.5) 460-130320-6 AOC-9 3/24/2017 mg/kg	866 SB-987 (0-0.5) 460-130320-7 AOC-9 3/24/2017 mg/kg	873 SB-9034 (1.5-2) 460-130320-14 AOC-9 3/24/2017 mg/kg	874 SB-9034 (3.5-4) 460-130320-15 AOC-9 3/24/2017 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	ND U 0.012 0.089	ND U 0.011 0.084	ND U 0.011 0.081	ND U 0.011 0.081
Aroclor 1221	NS	NS	NS	NS	-	ND U 0.012 0.089	ND U 0.011 0.084	ND U 0.011 0.081	ND U 0.011 0.081
Aroclor 1232	NS	NS	NS	NS	-	ND U 0.012 0.089	ND U 0.011 0.084	ND U 0.011 0.081	ND U 0.011 0.081
Aroclor 1242	NS	NS	NS	NS	-	ND U 0.012 0.089	ND U 0.011 0.084	ND U 0.011 0.081	ND U 0.011 0.081
Aroclor 1248	NS	NS	NS	NS	-	ND U 0.012 0.089	ND U 0.011 0.084	ND U 0.011 0.081	ND U 0.011 0.081
Aroclor 1254	NS	NS	NS	NS	-	ND U 0.012 0.089	ND U 0.011 0.084	ND U 0.011 0.081	ND U 0.011 0.081
Aroclor 1260	NS	NS	NS	NS	-	0.094 0.012 0.089	0.42 0.011 0.084	0.57 0.011 0.081	1 0.011 0.081
Aroclor 1262	NS	NS	NS	NS	-	ND U 0.012 0.089	ND U 0.011 0.084	ND U 0.011 0.081	ND U 0.011 0.081
Aroclor 1268	NS	NS	NS	NS	-	ND U 0.012 0.089	ND U 0.011 0.084	ND U 0.011 0.081	ND U 0.011 0.081
Total PCBs	0.2	1	0.2	0.2	-	0.094 0.012 0.089	0.42 0.011 0.084	0.57 0.011 0.081	1 0.011 0.081

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

Exceedances:

- 10 - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard
- 10 - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard
- 10 - Result exceeds AOC 9 Specific Impact to Groundwater Soil Remediation Standard
- 15 - MDL exceeds standard

TABLE 1 - AOC 9 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 9 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1040 SB-9040(0-0.5) 460-133658-16 AOC-9 5/17/2017 mg/kg	1049 DUP-10 (SB-9040) 460-133658-25 AOC-9 5/17/2017 mg/kg	1250 SB-9042(0-0.5) 460-134357-13 AOC-9 5/30/2017 mg/kg	1251 SB-9042(4.5-5) 460-134357-13 AOC-9 5/30/2017 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	ND 0.012 0.092	ND 0.013 0.098	ND 0.01 0.076	ND 0.012 0.094
Aroclor 1221	NS	NS	NS	NS	-	ND 0.012 0.092	ND 0.013 0.098	ND 0.01 0.076	ND 0.012 0.094
Aroclor 1232	NS	NS	NS	NS	-	ND 0.012 0.092	ND 0.013 0.098	ND 0.01 0.076	ND 0.012 0.094
Aroclor 1242	NS	NS	NS	NS	-	ND 0.012 0.092	ND 0.013 0.098	ND 0.01 0.076	ND 0.012 0.094
Aroclor 1248	NS	NS	NS	NS	-	ND 0.012 0.092	ND 0.013 0.098	ND 0.01 0.076	ND 0.012 0.094
Aroclor 1254	NS	NS	NS	NS	-	ND 0.013 0.092	ND 0.013 0.098	ND 0.01 0.076	ND 0.013 0.094
Aroclor 1260	NS	NS	NS	NS	-	0.63 J 0.013 0.092	0.33 J 0.013 0.098	0.14	0.01 0.076 ND 0.013 0.094
Aroclor 1262	NS	NS	NS	NS	-	ND 0.013 0.092	ND 0.013 0.098	ND 0.01 0.076	ND 0.013 0.094
Aroclor 1268	NS	NS	NS	NS	-	ND 0.013 0.092	ND 0.013 0.098	ND 0.01 0.076	ND 0.013 0.094
Total PCBs	0.2	1	0.2	0.2	-	0.63 J 0.013 0.092	0.33 J 0.013 0.098	0.14	0.01 0.076 ND 0.013 0.094

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

Exceedances:

- 10** - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard
- 10** - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard
- 10** - Result exceeds AOC 9 Specific Impact to Groundwater Soil Remediation Standard
- 15** - MDL exceeds standard

TABLE 1 - AOC 9 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 9 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1046 SB-9043(1-1.5) 460-133658-22 AOC-9 5/17/2017 mg/kg	1254 SB-9046(0-0.5) 460-134357-17 AOC-9 5/30/2017 mg/kg	1255 SB-9046(5-5.5) 460-134357-18 AOC-9 5/30/2017 mg/kg	1252 SB-9050(1.5-2) 460-134357-15 AOC-9 5/30/2017 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	ND 0.01 0.077	ND 0.012 0.087	ND 0.012 0.087	ND 0.01 0.078
Aroclor 1221	NS	NS	NS	NS	-	ND 0.01 0.077	ND 0.012 0.087	ND 0.012 0.087	ND 0.01 0.078
Aroclor 1232	NS	NS	NS	NS	-	ND 0.01 0.077	ND 0.012 0.087	ND 0.012 0.087	ND 0.01 0.078
Aroclor 1242	NS	NS	NS	NS	-	ND 0.01 0.077	ND 0.012 0.087	ND 0.012 0.087	ND 0.01 0.078
Aroclor 1248	NS	NS	NS	NS	-	ND 0.01 0.077	ND 0.012 0.087	ND 0.012 0.087	ND 0.01 0.078
Aroclor 1254	NS	NS	NS	NS	-	ND 0.011 0.077	ND 0.012 0.087	ND 0.012 0.087	ND 0.011 0.078
Aroclor 1260	NS	NS	NS	NS	-	0.26 0.011 0.077	ND 0.012 0.087	ND 0.012 0.087	0.049 0.011 0.078
Aroclor 1262	NS	NS	NS	NS	-	ND 0.011 0.077	ND 0.012 0.087	ND 0.012 0.087	ND 0.011 0.078
Aroclor 1268	NS	NS	NS	NS	-	ND 0.011 0.077	ND 0.012 0.087	ND 0.012 0.087	ND 0.011 0.078
Total PCBs	0.2	1	0.2	0.2	-	0.26 0.011 0.077	ND 0.012 0.087	ND 0.012 0.087	0.049 0.011 0.078

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

Exceedances:

- | | |
|-----------|---|
| 10 | - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard |
| 10 | - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard |
| 10 | - Result exceeds AOC 9 Specific Impact to Groundwater Soil Remediation Standard |
| 15 | - MDL exceeds standard |

TABLE 1 - AOC 9 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Non-Residential Direct Contact Soil Remediation Standard mg/kg	NJDEP Impact to Ground Water Soil Screening Level mg/kg	AOC 9 Specific NJDEP Impact to Ground Water Soil Screening Level mg/kg	Site-Wide Historic Fill Levels mg/kg	1253 SB-9050(5-5.5) 460-134357-16 AOC-9 5/30/2017 mg/kg	1037 SB-9052(0-0.5) 460-133658-13 AOC-9 5/17/2017 mg/kg	1039 SB-9053(0-0.5) 460-133658-15 AOC-9 5/17/2017 mg/kg	1048 SB-9054(0.66-1.16) 460-133658-24 AOC-9 5/17/2019 mg/kg
SOIL BY 8082A									
Aroclor 1016	NS	NS	NS	NS	-	ND 0.011 0.085	ND 0.011 0.084	ND 0.011 0.082	ND 0.0099 0.074
Aroclor 1221	NS	NS	NS	NS	-	ND 0.011 0.085	ND 0.011 0.084	ND 0.011 0.082	ND 0.0099 0.074
Aroclor 1232	NS	NS	NS	NS	-	ND 0.011 0.085	ND 0.011 0.084	ND 0.011 0.082	ND 0.0099 0.074
Aroclor 1242	NS	NS	NS	NS	-	ND 0.011 0.085	ND 0.011 0.084	ND 0.011 0.082	ND 0.0099 0.074
Aroclor 1248	NS	NS	NS	NS	-	ND 0.011 0.085	ND 0.011 0.084	ND 0.011 0.082	ND 0.0099 0.074
Aroclor 1254	NS	NS	NS	NS	-	ND 0.012 0.085	ND 0.012 0.084	ND 0.011 0.082	ND 0.01 0.074
Aroclor 1260	NS	NS	NS	NS	-	ND 0.012 0.085	0.37 0.012 0.084	0.23 0.011 0.082	0.63 0.01 0.074
Aroclor 1262	NS	NS	NS	NS	-	ND 0.012 0.085	ND 0.012 0.084	ND 0.011 0.082	ND 0.01 0.074
Aroclor 1268	NS	NS	NS	NS	-	ND 0.012 0.085	ND 0.012 0.084	ND 0.011 0.082	ND 0.01 0.074
Total PCBs	0.2	1	0.2	0.2	-	ND 0.012 0.085	0.37 0.012 0.084	0.23 0.011 0.082	0.63 0.01 0.074

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

Exceedances:

- | | |
|-----------|---|
| 10 | - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard |
| 10 | - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard |
| 10 | - Result exceeds AOC 9 Specific Impact to Groundwater Soil Remediation Standard |
| 15 | - MDL exceeds standard |

TABLE 1 - AOC 9 SOIL ANALYTICAL RESULTS
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Langan Sample ID: Lab Sample ID: AOC: Sample Date: Units:	NJDEP Residential Direct Contact Soil Remediation Standard	NJDEP Non-Residential Direct Contact Soil Remediation Standard	NJDEP Impact to Ground Water Soil Screening Level	AOC 9 Specific NJDEP Impact to Ground Water Soil Screening Level	Site-Wide Historic Fill Levels	1246 SB-9055(4.5-5)				1247 SB-9055(5.5-6)				1248 SB-9056(3.5-4)			
						60-134357-9 AOC-9 5/30/2017 mg/kg				60-134357-10 AOC-9 5/30/2017 mg/kg				460-134357-11 AOC-9 5/30/2017 mg/kg			
SOIL BY 8082A						Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL
Aroclor 1016	NS	NS	NS	NS	-	ND	0.011	0.084	ND	0.011	0.081	ND	0.01	0.078			
Aroclor 1221	NS	NS	NS	NS	-	ND	0.011	0.084	ND	0.011	0.081	ND	0.01	0.078			
Aroclor 1232	NS	NS	NS	NS	-	ND	0.011	0.084	ND	0.011	0.081	ND	0.01	0.078			
Aroclor 1242	NS	NS	NS	NS	-	ND	0.011	0.084	ND	0.011	0.081	ND	0.01	0.078			
Aroclor 1248	NS	NS	NS	NS	-	ND	0.011	0.084	ND	0.011	0.081	ND	0.01	0.078			
Aroclor 1254	NS	NS	NS	NS	-	ND	0.011	0.084	ND	0.011	0.081	ND	0.011	0.078			
Aroclor 1260	NS	NS	NS	NS	-	ND	0.011	0.084	ND	0.011	0.081	ND	0.011	0.078			
Aroclor 1262	NS	NS	NS	NS	-	ND	0.011	0.084	ND	0.011	0.081	ND	0.011	0.078			
Aroclor 1268	NS	NS	NS	NS	-	ND	0.011	0.084	ND	0.011	0.081	ND	0.011	0.078			
Total PCBs	0.2	1	0.2	0.2	-	ND	0.011	0.084	ND	0.011	0.081	ND	0.011	0.078			

Note:

MDL - Method detection limit

mg/kg - Milligrams per kilogram

NA - Not analyzed

NJDEP - New Jersey Department of Environmental Protection

Exceedances:

- | | |
|-----------|---|
| 10 | - Result exceeds NJDEP Residential Direct Contact Soil Remediation Standard |
| 10 | - Result exceeds NJDEP Non-Residential Direct Contact Soil Remediation Standard |
| 10 | - Result exceeds AOC 9 Specific Impact to Groundwater Soil Remediation Standard |
| 15 | - MDL exceeds standard |

J - Compound detected between the RL and MDL. Result should be considered an estimate

U - Compound analyzed but not detected

TABLE 2 - VERIFICATION SAMPLING PLAN
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Sample Location	AOC	Sample Depth (feet)	PCBs	Notes
Soil Sampling				
VS-101	1	6-6.5	●	Sample previously collected
VS-102	1	4-4.5	●	Sample previously collected
VS-103	1	4-4.5	●	Sample previously collected
VS-104	1	6-6.5	●	Sample previously collected
VS-105	1	6-6.5	●	Sample previously collected
VS-106	1	4-4.5	●	Sample previously collected
VS-107	1	6-6.5	●	Sample previously collected
VS-108	1	10.5-11	●	
VS-109	1	10.5-11	●	
VS-110	1	10.5-11	●	
VS-111	1	10.5-11	●	
VS-112	1	10.5-11	●	
VS-113	1	10.5-11	●	
VS-114	1	10.5-11	●	
VS-115	1	10.5-11	●	
VS-116	1	10.5-11	●	
VS-117	1	10.5-11	●	
VS-118	1	10.5-11	●	
VS-119	1	10.5-11	●	
VS-120	1	10.5-11	●	
VS-121	1	10.5-11	●	
VS-122	1	10.5-11	●	
VS-123	1	10.5-11	●	
VS-124	1	10.5-11	●	
VS-125	1	10.5-11	●	
VS-126	1	10.5-11	●	
VS-127	1	10.5-11	●	
VS-128	1	10.5-11	●	
VS-129	1	10.5-11	●	
VS-130	1	10.5-11	●	
VS-131	1	10.5-11	●	
VS-132	1	10.5-11	●	
VS-133	1	10.5-11	●	
VS-134	1	10.5-11	●	
VS-135	1	10.5-11	●	
VS-136	1	10.5-11	●	
VS-137	1	10.5-11	●	
VS-138	1	10.5-11	●	
VS-139	1	10.5-11	●	
VS-140	1	10.5-11	●	

TABLE 2 - VERIFICATION SAMPLING PLAN
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Sample Location	AOC	Sample Depth (feet)	PCBs	Notes
VS-141	1	10.5-11	●	
VS-142	1	10.5-11	●	
VS-143	1	10.5-11	●	
VS-144	1	10.5-11	●	
VS-145	1	10.5-11	●	
VS-146	1	10.5-11	●	
VS-147	1	10.5-11	●	
VS-148	1	10.5-11	●	
VS-149	1	10.5-11	●	
VS-150	1	10.5-11	●	
VS-151	1	10.5-11	●	
VS-152	1	10.5-11	●	
VS-153	1	10.5-11	●	
VS-154	1	10.5-11	●	
VS-155	1	9.5-10	●	
VS-201	2	14-14.5	●	
VS-202	2	14-14.5	●	
VS-203	2	14-14.5	●	
VS-204	2	1.5-2	●	
VS-205	2	1.5-2	●	
VS-206	2	1.5-2	●	
VS-207	2	1.5-2	●	
VS-208	2	1.5-2	●	
VS-209	2	1.5-2	●	
VS-210	2	1.5-2	●	
VS-211	2	1.5-2	●	
VS-212	2	1.5-2	●	
VS-213	2	1.5-2	●	
VS-214	2	1.5-2	●	
VS-215	2	1.5-2	●	
VS-216	2	3.5-4	●	
VS-217	2	3.5-4	●	
VS-218	2	3.5-4	●	
VS-219	2	3.5-4	●	
VS-220	2	3.5-4	●	

TABLE 2 - VERIFICATION SAMPLING PLAN
PSEG KEARNY GENERATING STATION
KEARNY, NJ

Sample Location	AOC	Sample Depth (feet)	PCBs	Notes
VS-221	2	3.5-4	●	
VS-222	2	3.5-4	●	
VS-223	2	3.5-4	●	
VS-224	2	3.5-4	●	
VS-225	2	3.5-4	●	
VS-226	2	3.5-4	●	
VS-227	2	3.5-4	●	
VS-228	2	3.5-4	●	
VS-229	2	3.5-4	●	
VS-230	2	3.5-4	●	
VS-231	2	3.5-4	●	
Subtotals:		86		
Duplicates required:		5		
Totals:		91		
Quality Assurance / Quality Control Samples				
FB	Field blanks to be collected for VOCs only; none required for this sampling event.			
TB	No trip blanks to be collected for soil samples.			
DUP	Duplicates will be collected for each matrix at a rate of 5% of the total number of samples and analyzed for the respective matrices.			

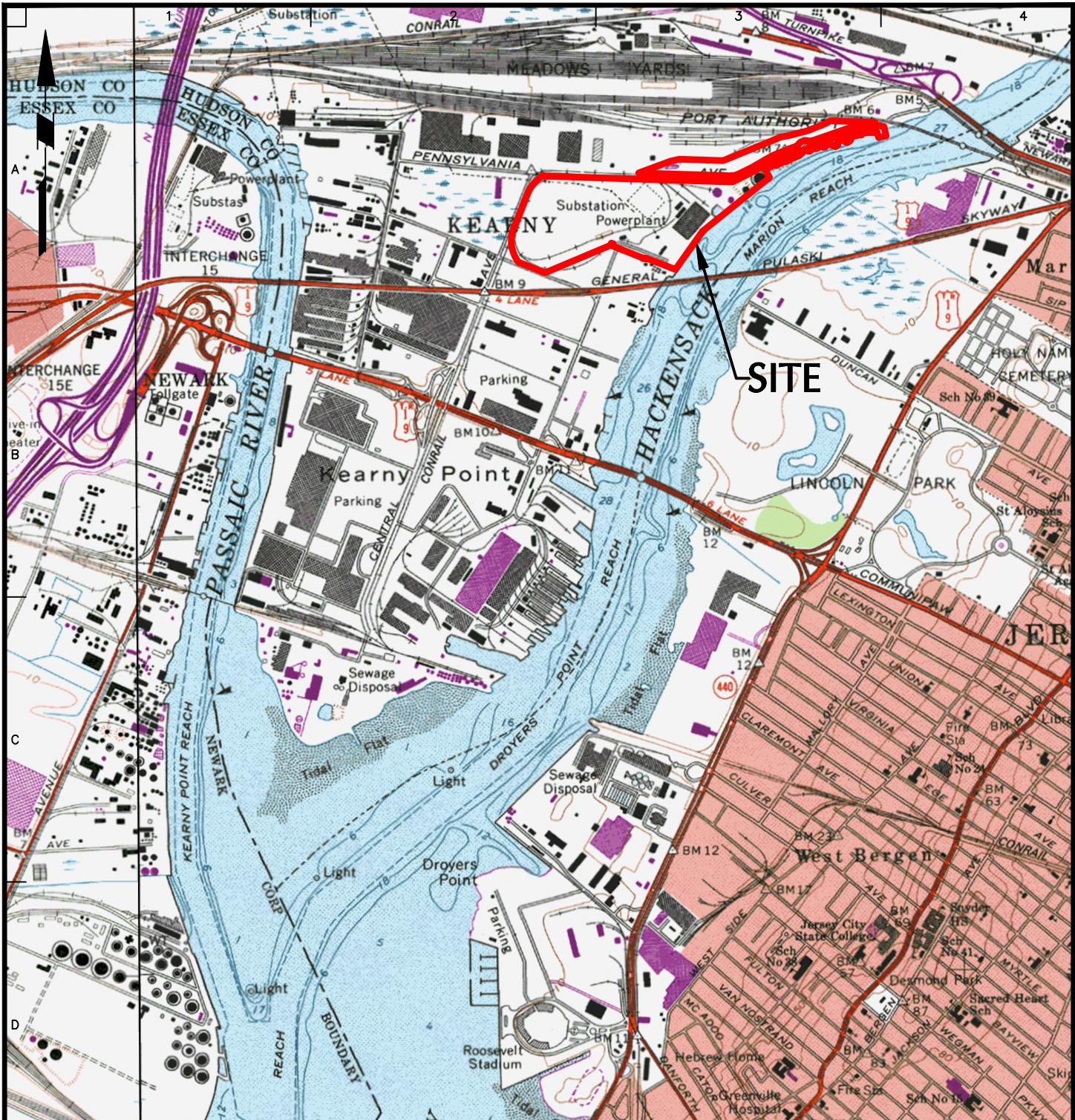
Notes:

1. Sampling plan uses a reduced sampling frequency of 1 sample per 400 square feet.

Acronyms:

PCB - Polychlorinated Biphenyl
VOCs - Volatile Organic Compounds

DRAWINGS



LATITUDE 40°44'15" N LONGITUDE 74°6'5" W
STATE PLANE COORDINATES: 602868.56, 693886.12

2000

0 500 1000 2000

SCALE IN FEET

MAP REFERENCE: USGS JERSEY CITY, NEW JERSEY
TOPOGRAPHIC QUADRANGLE MAP, 1967, REVISED 1981

LANGAN

300 Kimball Drive, 4th Floor
Parsippany, NJ 07054-2172
T:973.560.4900 F:973.560.4901 www.langan.com

Langan Engineering, Environmental, Surveying and
Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan CT, Inc.
Langan International LLC
Collectively known as Langan

Project

**KEARNY GENERATING
STATION**

KEARNY
HUDSON COUNTY
NEW JERSEY

Drawing Title

**USGS SITE
LOCATION MAP**

Project No.
100218521

Date
6/19/2019

Scale
1" = 2000'

Drawn By
MH

Submission Date

Drawing No.

1

Sheet 1 of 1



NOTE:

1) AERIAL IMAGE FROM NEARMAP, DATED 26 MARCH, 2019.

250 0 125 250
SCALE IN FEET

LANGAN

300 Kimball Drive, Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NEW JERSEY NEW YORK CONNECTICUT PENNSYLVANIA
OHIO WASHINGTON, DC FLORIDA TEXAS CALIFORNIA
ABU DHABI ATHENS DOHA DUBAI ISTANBUL PANAMA LONDON
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. S.A.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

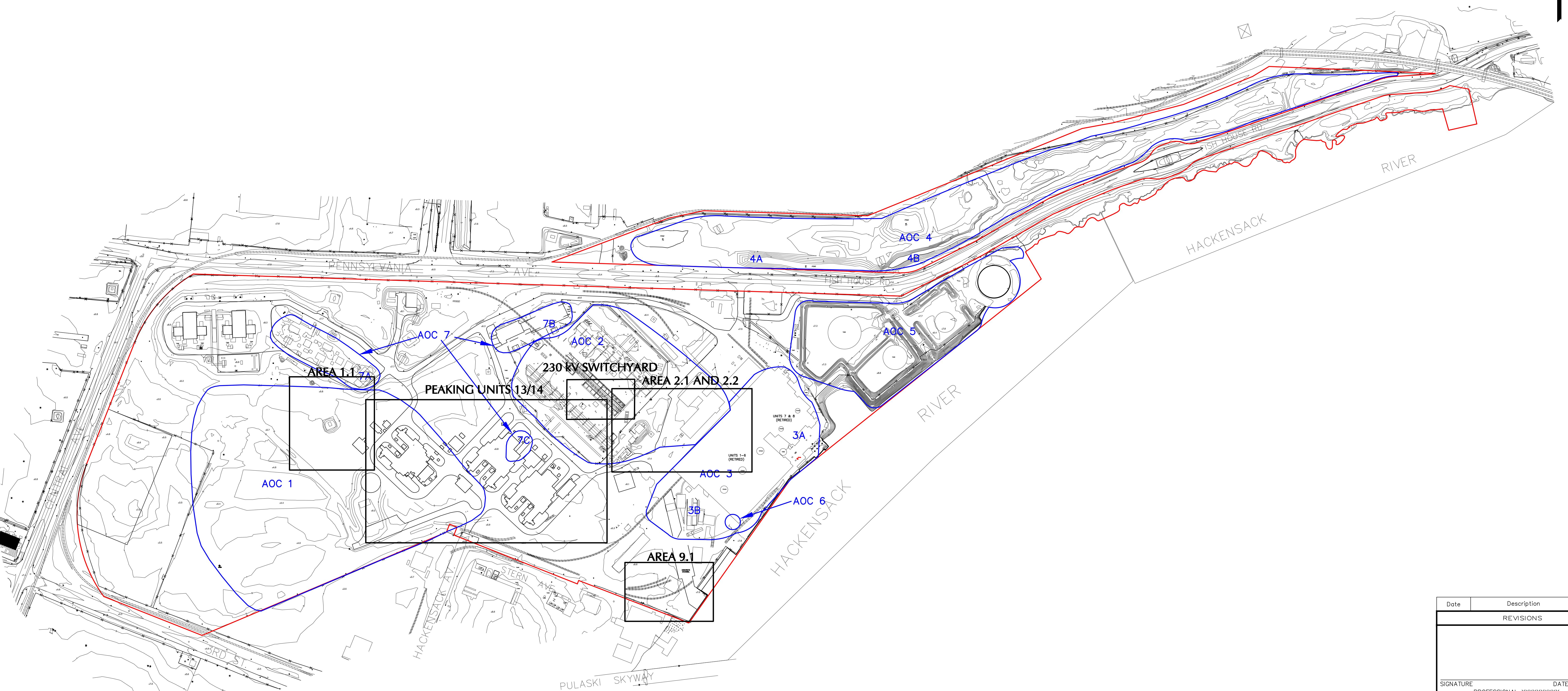
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
**PSEG KEARNY
GENERATING STATION**
HUDSON COUNTY KEEARNY NEW JERSEY

Drawing Title
SITE PLAN

Project No.	Drawing No.
100218521	
Date	6/19/2019
Scale	1" = 250'
Drawn By MH	Checked By KW

2



LEGEND:

- PROPERTY BOUNDARY
- AOC BOUNDARY
- AREA 9.1
- PCB REMEDIATION LOCATION

Date	Description	No.
REVISIONS		
SIGNATURE _____ DATE SIGNED _____ PROFESSIONAL XXXXXXXX STATE LIC. No. XXXXX		
LANGAN 300 Kimball Drive, Parsippany, NJ 07054 T: 973.560.4900 F: 973.560.4901 www.langan.com Langan Engineering, Surveying and Landscape Architecture, D.P.C. S.A. Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Environmental Services, Inc. Langan CT, Inc. Langan International LLC Collectively known as Langan NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400		

**PSEG KEARNY
GENERATING STATION**


KEARNY NEW JERSEY
HUDSON Drawing Title

**PCB REMEDIATION
AREAS KEY MAP**

Project No.	Drawing No.
100218521	
Date	6/19/2019
Scale	1"=150'
Drawn By	Checked By
MH	KW
Submission Date	
Sheet of	

150 0 75 150
SCALE IN FEET


3



AREA 2.1, 2.2, AND 230 kV SWITCHYARD

LANGAN

PROJECT NO. 100218515 SUBMISSION DATE: X



UNITS 1–6
(RETIRED)

Date	Description	No.
REVISIONS		

SIGNATURE DATE SIGNED
PROFESSIONAL XXXXXXXXX
STATE LIC. No. XXXXX

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T: 973.455.1000 | F: 973.455.0001 | www.langan.com
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Langen Engineering and Environmental Services, Inc.
Langen International LLC
California Office
NJ CERTIFICATE OF AUTHORIZATION No. 24GA2199640

Project

PSEG KEARNY
GENERATING STATION

KEARNY NEW JERSEY

Drawing Title

EXCEEDANCES OF
THE NJDEP SRS -
AOC 2

Project No.	Drawing No.
100218521	
Date	6/25/2019
Scale	1"=20'
Drawn By MH	Checked By KW
Submission Date	Sheet of 1


NOTES:

- 1- NA = NOT ANALYZED
- 2- ND = NON-DETECT
- 3- NE = NO EXCEDANCE
- 4- BOLD VALUES INDICATE AN EXCEDANCE OF THE NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARDS.
- 5- SHADED VALUES INDICATE AN EXCEDANCE OF THE NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARDS.
- 6- UNDERLINED VALUES INDICATE AN EXCEDANCE OF THE NJDEP DEFAULT IMPACT TO GROUND WATER SOIL SCREENING LEVEL OR AOC SPECIFIC IMPACT TO GROUND WATER SOIL REMEDIATION STANDARDS.
- 7- ALL UNITS ARE IN MG/KG.
- 8- HISTORIC SAMPLE RESULTS ASSOCIATED WITH THE 1996-1997 RI WHERE RESULTS COULD NOT BE CONFIRMED DURING THE 2013-2015 RI ARE NOT SHOWN.

LEGEND:

- PDI BORING LOCATION NOT ANALYZED
- PDI BORING LOCATION REQUIRING NO FURTHER ACTION
- PDI BORING LOCATION WITH EXCEDANCES IDENTIFIED
- HISTORICAL OR RI BORING LOCATION
- HISTORICAL TEST PIT LOCATION
- LIMIT OF PCBs EXCEEDING 1 MG/KG

Analyte	NJDEP Residential Direct Contact Soil Remediation Standard	NJDEP Non-Residential Direct Contact Soil Remediation Standard	AOC 2 Specific Impact to Ground Water Soil Remediation Standard	Historic Fill Levels	USEPA TSCA High Occupancy Level	USEPA TSCA Low Occupancy Level
PCBs	0.2	1	12	NS	10	100



LEGEND:

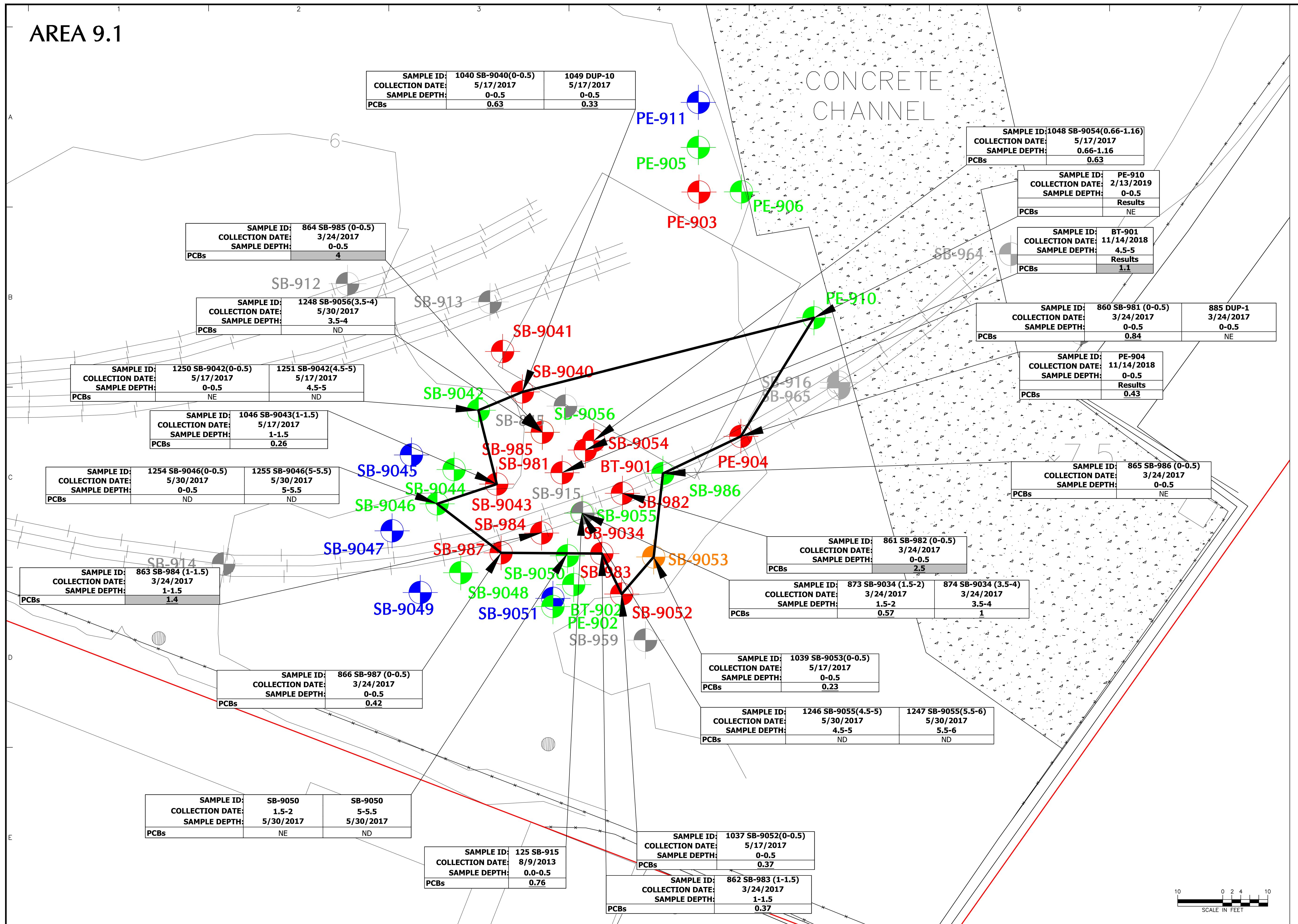
-  SB-101 PDI BORING LOCATION NOT SAMPLED
-  SB-101 PDI BORING LOCATION WITH MIXED RESULTS
-  SB-101 PDI BORING LOCATION REQUIRING NO FURTHER ACTION
-  SB-101 PDI BORING LOCATION WITH NO EXCEEDANCES IDENTIFIED
-  SB-325 HISTORICAL OR RI BORING LOCATION
-  TP-4 HISTORICAL TEST PIT LOCATION
-  PROPERTY BOUNDARY
-  LIMIT OF PCBs EXCEEDING 1 MG/KG

NOTES:

- 1- NA = NOT ANALYZED
- 2- ND = NON-DETECT
- 3- NE = NO EXCEEDANCE
- 4- BOLD VALUES INDICATE AN EXCEEDANCE OF THE NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARDS.
- 5- SHADED VALUES INDICATE AN EXCEEDANCE OF THE NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARDS.
- 6- UNDERLINED VALUES INDICATE AN EXCEEDANCE OF THE NJDEP DEFAULT IMPACT TO GROUND WATER SOIL SCREENING LEVEL OR AOC SPECIFIC IMPACT TO GROUND WATER SOIL REMEDIATION STANDARDS.
- 7- ALL UNITS ARE IN MG/KG.

Analyte	NJDEP Residential Direct Contact Soil Remediation Standard	NJDEP Non-Residential Direct Contact Soil Remediation Standard	AOC 8 Specific Impact to Ground Water Soil Remediation Standard	Historic Fill Levels
PCBs	0.2	1	0.2	NS

AREA 9.1



LEGEND:

- PROPERTY BOUNDARY**
- PDI BORING LOCATION NOT SAMPLED**
- PDI BORING LOCATION REQUIRING NO FURTHER ACTION**
- PDI BORING LOCATION WITH EXCEEDANCES IDENTIFIED**
- PDI BORING LOCATION WITH NO EXCEEDANCES IDENTIFIED**
- HISTORICAL OR RI BORING LOCATION**
- HISTORICAL TEST PIT LOCATION**
- LIMIT OF PCBs EXCEEDING 1 MG/KG**

NOTES:

- 1- NA = NOT ANALYZED
- 2- ND = NON-DETECT
- 3- NE = NO EXCEEDANCE
- 4- **BOLD VALUES INDICATE AN EXCEEDANCE OF THE NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARDS.**
- 5- SHADED VALUES INDICATE AN EXCEEDANCE OF THE NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARDS.
- 6- **UNDERLINED VALUES INDICATE AN EXCEEDANCE OF THE NJDEP DEFAULT IMPACT TO GROUND WATER SOIL SCREENING LEVEL OR AOC SPECIFIC IMPACT TO GROUND WATER SOIL REMEDIATION STANDARDS.**
- 7- ALL UNITS ARE IN MG/KG.

Analyte	NJDEP Residential Direct Contact Soil Remediation Standard	NJDEP Non-Residential Direct Contact Soil Remediation Standard	AOC 9 Specific Impact to Ground Water Soil Remediation Standard	Historic Fill Levels
PCP	0.0	1	0.0	

Date	Description	No.
REVISIONS		
SIGNATURE		DATE SIGNED
PROFESSIONAL	XXXXXXXXXX	

LANGAN

300 Kimball Drive, Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com

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Langan International LLC
Collectively known as Langan

NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

GENERATING STATION

KEARNY

HUDSON

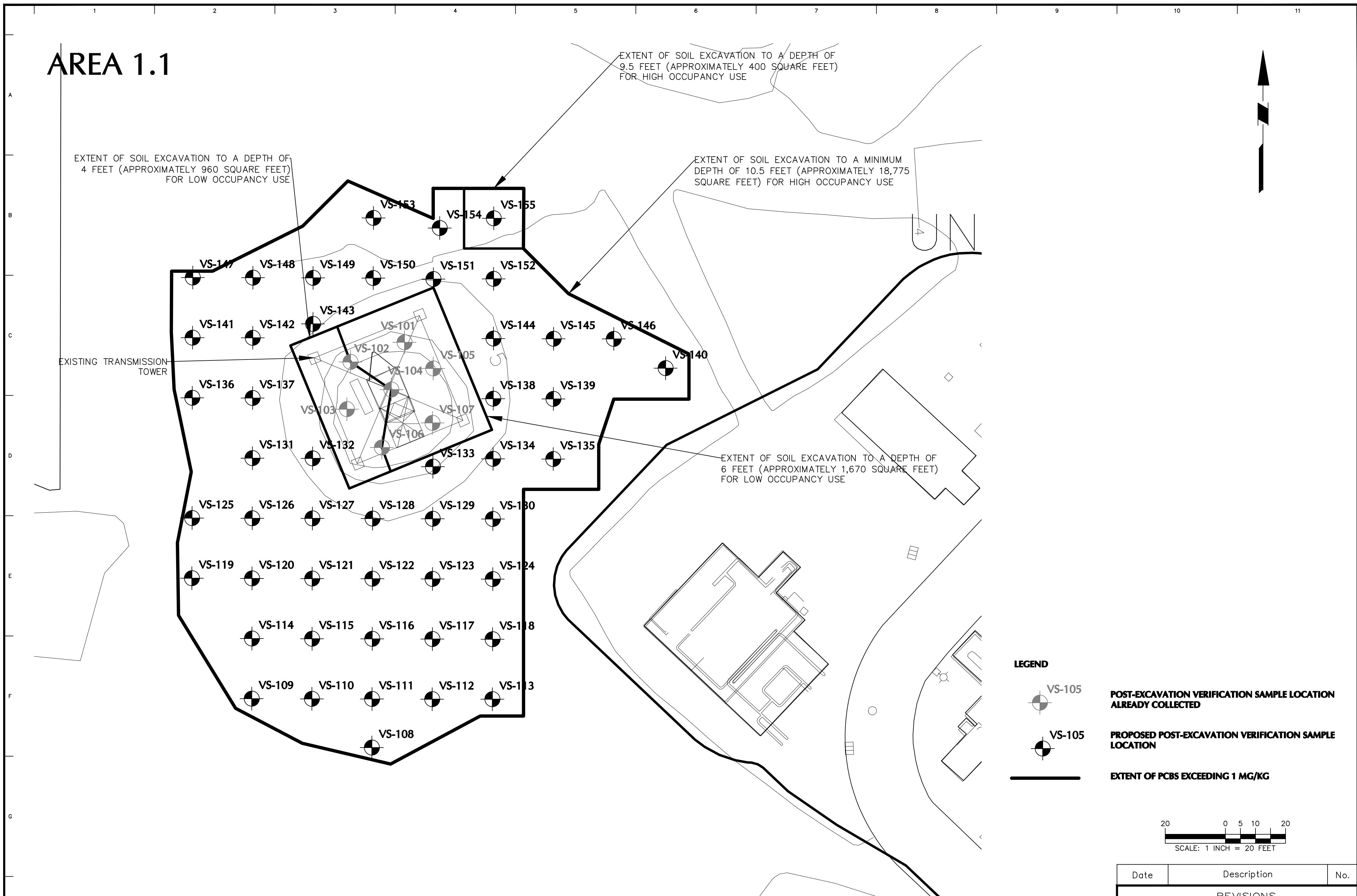
NEW JERSEY

Drawing Title

EXCEEDANCES OF THE BUILDING CODE

THE NJDEP SRS - AOC 9

AREA 1.1



Date	Description	No.
REVISIONS		
Project No.	Drawing No.	
100218521		
Date		
02/12/2020		
Drawn By		
KW		
Checked By		
ES		
Sheet	of	

SIGNATURE _____ DATE SIGNED _____
PROFESSIONAL XXXXXXXXX
STATE LIC. No. XXXXX

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Langan Engineering and
Environmental Services, Inc.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
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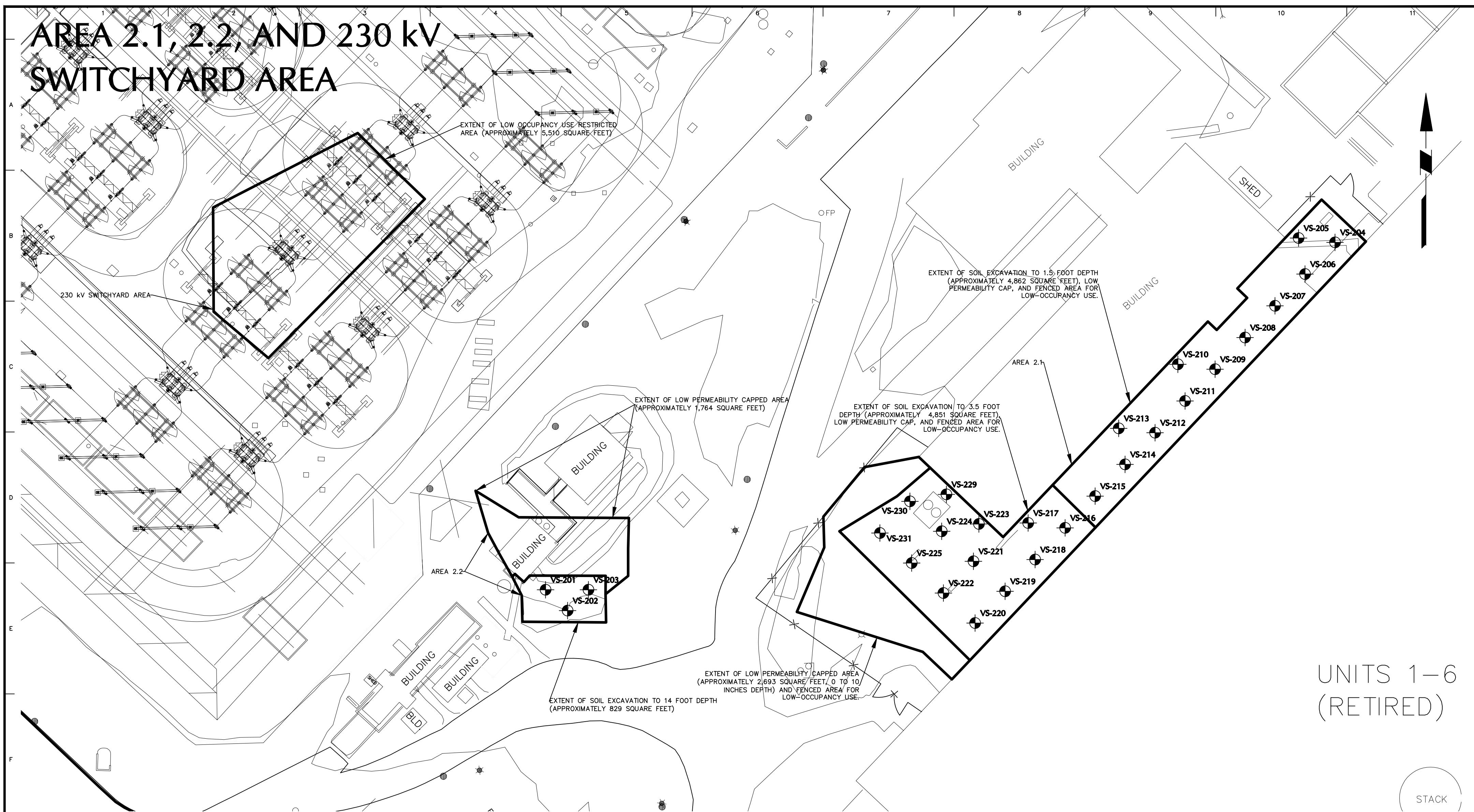
Project
HUDSON COUNTY

Drawing Title
KEARNY
NEW JERSEY
**PSEG KEARNY
GENERATING STATION**

**REMEDIATION AND
VERIFICATION SAMPLING
PLAN - AOC 1**

8

AREA 2.1, 2.2, AND 230 kV SWITCHYARD AREA



UNITS 1–6
(RETIRED)

STACK

20
0
5
10
20
SCALE: 1 INCH = 20 FEET

Date	Description	No.
REVISIONS		
Project No.	Drawing No.	
100218521		
Date		
7/17/2019		
Drawn By		
KW		
Checked By		
ES		
Sheet	of	

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Environmental Services, Inc.
300 Kimball Drive
Parsippany, NJ 07054

SIGNATURE DATE SIGNED
PROFESSIONAL XXXXXXXXX
STATE LIC. No. XXXXX

T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

PSEG KEARNY
GENERATING STATION

KEARNY
HUDSON COUNTY

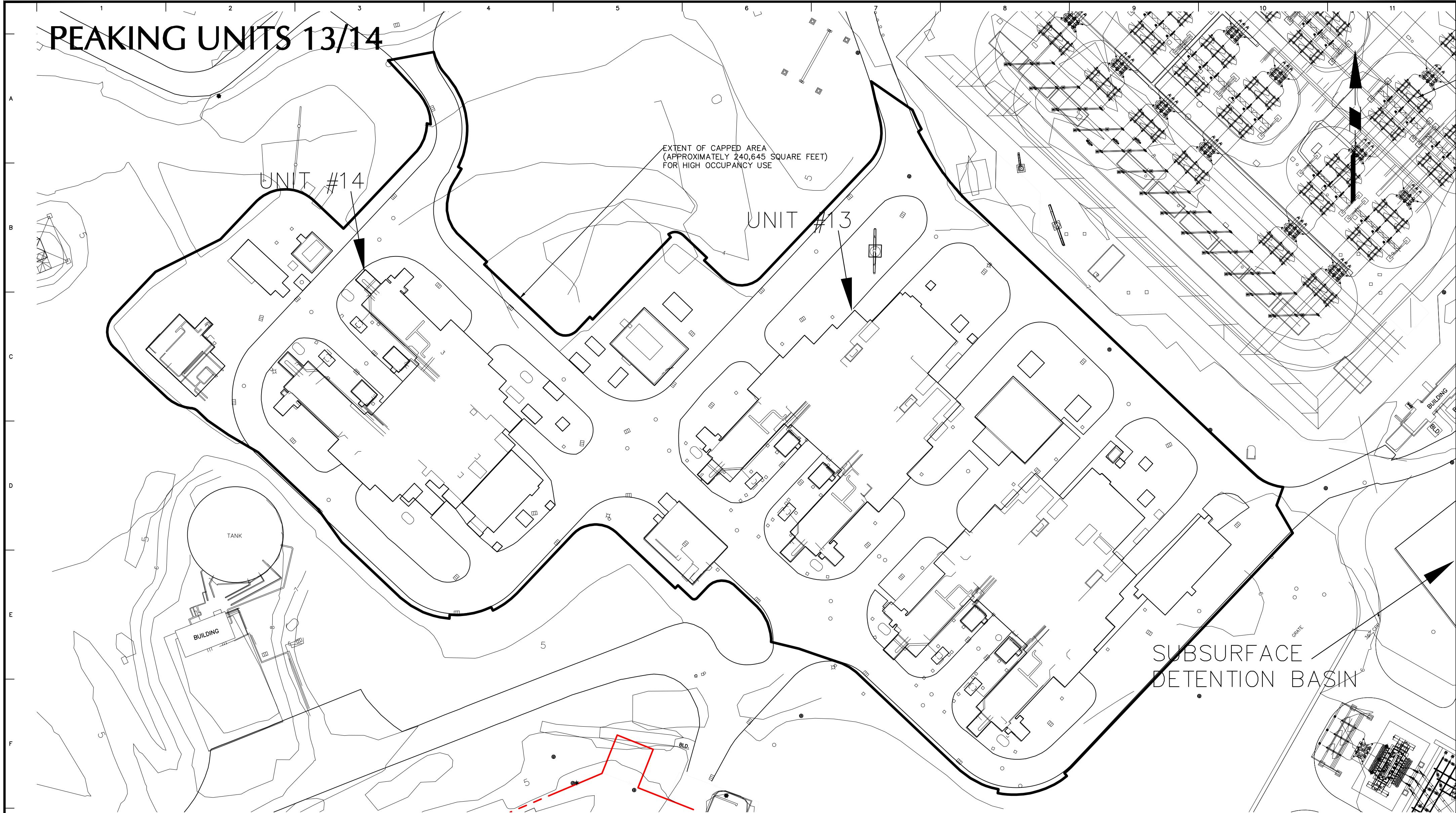
Drawing Title

REMEDIATION AND
VERIFICATION SAMPLING
PLAN - AOC 2

PEAKING UNITS 13/14

LANGAN

PROJECT NO. 100218521



NOTES:

G-1- PCB-IMPACTED SOIL IS ONLY PRESENT BENEATH THE CONCRETE FOUNDATIONS AND ASPHALT ROADWAY PORTIONS OF THE CAP.

LEGEND



Date	Description	No.

REVISIONS

Project No.	Drawing No.
100218521	
Date	
7/17/2019	
Drawn By	
KW	
Checked By	
ES	
Sheet	of

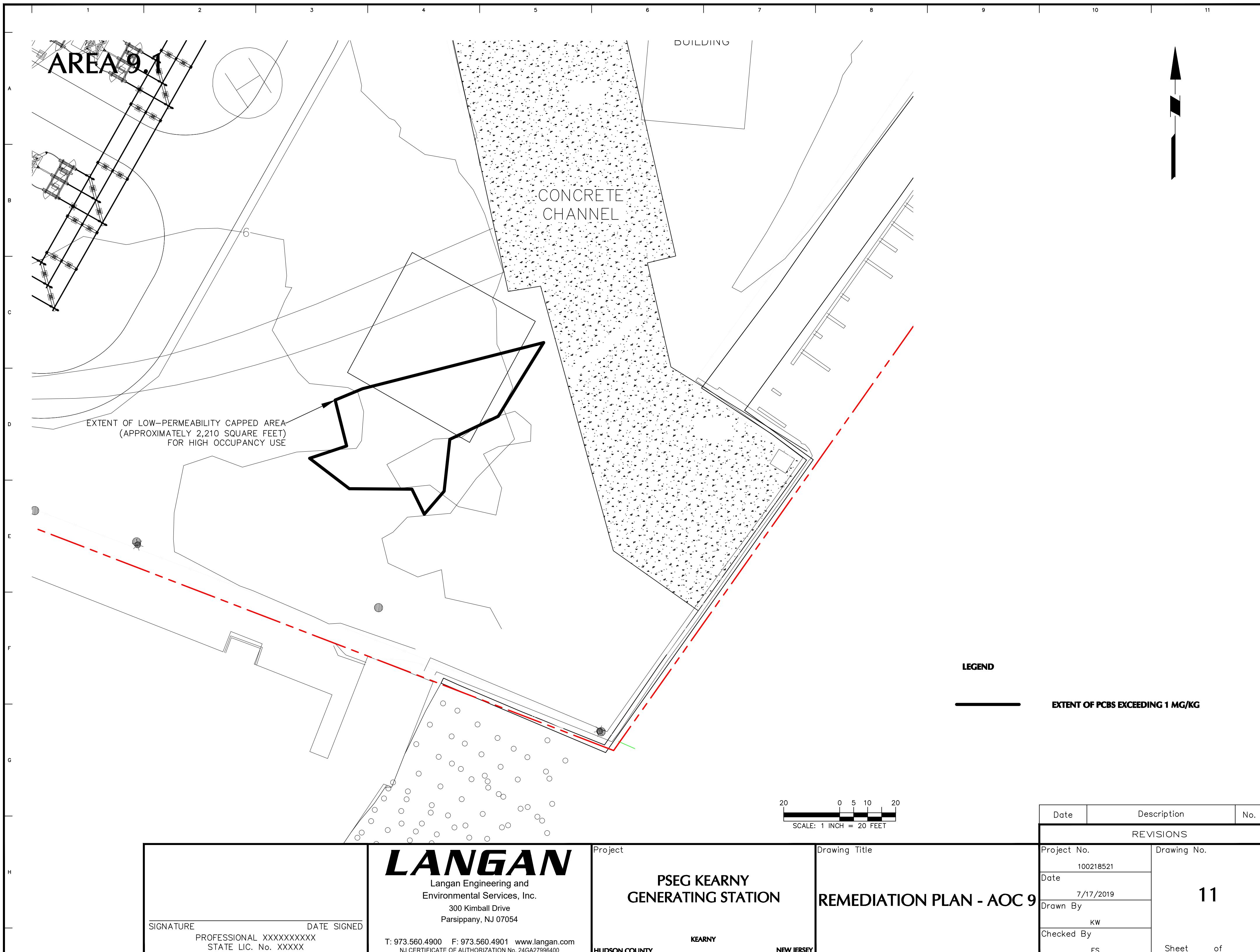
SIGNATURE	DATE SIGNED
PROFESSIONAL XXXXXXXXX	
STATE LIC. No. XXXXX	

LANGAN
Langan Engineering and
Environmental Services, Inc.
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
HUDSON COUNTY
KEARNY
NEW JERSEY

PSEG KEARNY
GENERATING STATION

Drawing Title
REMEDIATION PLAN - AOC 8



A P P E N D I X A

LABORATORY ANALYTICAL DATA PACKAGES
(on enclosed cd)



CD contains electronic copy (.pdf) of submission
including Appendix A - Laboratory Analytical Data Packages

**NOTIFICATION, SELF-IMPLEMENTING, AND
RISK-BASED CLEANUP AND DISPOSAL
OF PCB REMEDIATION WASTE PLAN
FOR THE KEARNY GENERATING STATION**

**KEARNY GENERATING STATION
KEARNY, HUDSON COUNTY, NEW JERSEY
March 2020
Langan Project #100218521**

APPENDIX B

CERTIFICATION

Self-Implementing PCB Remediation Waste Plan Written Certification

The undersigned party conducting the PCB cleanup at the Kearny Generating Station, Kearny, New Jersey (Block 298, Lots 19.01, 19.03, 20, 21, 22, 23, and 23.01) certifies that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the identified cleanup Site are on file at the location indicated below and are available for United States Environmental Protection Agency (USEPA) inspection.

Documentation Location:

Langan Engineering & Environmental Services, Inc.
300 Kimball Drive
Parsippany, New Jersey 07054

Party Completing PCB Remediation

PSEG Fossil, LLC:

Mark F. Strickland

Authorized Representative Name (print)

Mark F. Strickland

Authorized Representative Signature/Date

Self-Implementation Plan Written Certification

The undersigned party conducting the PCB cleanup at the Kearny Generating Station, Kearny, New Jersey (Block 298, Lots 19.01, 19.03, 20, 21, 22, 23, and 23.01) certifies that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the identified cleanup Site are on file at the location indicated below and are available for United States Environmental Protection Agency (USEPA) inspection.

Property Owner

PSEG Power LLC, Fossil Environmental Affairs:

Mark F. Strickland

Authorized Representative Name (print)



Authorized Representative Signature/Date